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## Linux Distribution Performance Low-End Processor

Tests for a future article by Michael Larabel on phoronix.

### Automated Executive Summary

*Clear Linux 31990 had the most wins, coming in first place for 66% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Clear Linux 31990) was 1.139x the speed of the slowest (Ubuntu 18.04.3 LTS). Fedora Workstation 31 was 0.941x the speed of Clear Linux 31990, openSUSE Tumbleweed was 0.969x the speed of Fedora Workstation 31, Manjaro Linux 18.1.5 was 0.987x the speed of openSUSE Tumbleweed, EndeavourOS was 0.997x the speed of Manjaro Linux 18.1.5, Debian Testing was 0.998x the speed of EndeavourOS, CentOS Stream was 0.997x the speed of Debian Testing, Ubuntu 19.10 was 0.99x the speed of CentOS Stream, Ubuntu 18.04.3 LTS was 0.992x the speed of Ubuntu 19.10.*

*The results with the greatest spread from best to worst included:*

*Perl Benchmarks (Test: Interpreter) at 2.155x  
Systemd Total Boot Time (Test: Kernel) at 1.619x  
ctx\_clock (Context Switch Time) at 1.5x  
PyBench (Total For Average Test Times) at 1.481x  
Selenium (Benchmark: Speedometer - Browser: Firefox) at 1.348x  
Selenium (Benchmark: ARES-6 - Browser: Firefox) at 1.287x*

Selenium (Benchmark: StyleBench - Browser: Firefox) at 1.272x

Selenium (Benchmark: Maze Solver - Browser: Firefox) at 1.267x

SVT-AV1 (Encoder Mode: Enc Mode 8 - Input: 1080p) at 1.256x

Java SciMark (Computational Test: Composite) at 1.227x.

## Test Systems:

### CentOS Stream

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: CentOS Linux 8, Kernel: 4.18.0-151.el8.x86\_64 (x86\_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server + Wayland, OpenGL: 4.5 Mesa 19.1.4 (LLVM 8.0.1), Compiler: GCC 8.3.1 20190507, File-System: xfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking-release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,ito --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x8108109

Java Notes: OpenJDK Runtime Environment (build 1.8.0\_232-b09)

Python Notes: + Python 3.6.8

Security Notes: SELinux + I11f: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling

### Clear Linux 31990

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Device 15d0, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Device 15de, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Clear Linux OS 31990, Kernel: 5.4.6-883.native (x86\_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, OpenGL: 4.6 Mesa 20.0.0-devel (LLVM 9.0.0), Vulkan: 1.1.107, Compiler: GCC 9.2.1 20191223 gcc-9-branch@279714 + Clang 9.0.0 + LLVM 9.0.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -fstack-protector -param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relo -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -WI,-sort-common -WI,--enable-new-dtags" FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -fstack-protector -param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relo -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -WI,--enable-new-dtags -Wa,-mbranches-within-32B-boundaries" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -fstack-protector -param=ssp-buffer-size=32 -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relo -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -WI,--enable-new-dtags -Wa,-mbranches-within-32B-boundaries -fvisibility-inlines-hidden -WI,--enable-new-dtags" MESA\_GLSL\_CACHE\_DISABLE=0 CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -fstack-protector -param=ssp-buffer-size=32 -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relo -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -WI,-sort-common -WI,--enable-new-dtags -mtune=skylake -Wa,-mbranches-within-32B-boundaries" THEANO\_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-freeto-vectorize -maxv'" Compiler Notes: --build=x86\_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include

```
--target=x86_64-generic-linux --with-arch=westmere --with-gcc-major-version-only --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x8108109
Graphics Notes: GLAMOR
Java Notes: OpenJDK Runtime Environment (build 1.8.0-u232-ga-b00)
Python Notes: Python 3.8.0
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected
```

## Debian Testing

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Debian stable-updates, Kernel: 5.3.0-3-amd64 (x86\_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Compiler: GCC 9.2.1 20191130, File-System: ext4, Screen Resolution: 1920x1080

```
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x8108109
Java Notes: OpenJDK Runtime Environment (build 11.0.6-ea+7-post-Debian-1)
Python Notes: Python 2.7.17 + Python 3.7.5
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected
```

## EndeavourOS

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: EndeavourOS rolling, Kernel: 5.4.6-arch1-1 (x86\_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 19.3.1 (LLVM 9.0.0), Compiler: GCC 9.2.0, File-System: ext4, Screen Resolution: 1920x1080

```
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-_cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x8108109
Graphics Notes: GLAMOR
Java Notes: OpenJDK Runtime Environment (build 11.0.5+10)
Python Notes: Python 3.8.1
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected
```

## Fedora Workstation 31

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Fedora 31, Kernel: 5.3.16-300.fc31.x86\_64 (x86\_64), Desktop: GNOME Shell 3.34.2, Display Server: X Server + Wayland, OpenGL: 4.5 Mesa 19.2.8 (LLVM 9.0.0), Compiler: GCC 9.2.1 20190827, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-redhat-linux --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x8108109

Java Notes: OpenJDK Runtime Environment (build 1.8.0\_232-b09)

Python Notes: Python 3.7.5

Security Notes: SELinux + itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

## Manjaro Linux 18.1.5

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: ManjaroLinux 18.1.5, Kernel: 5.4.6-2-MANJARO (x86\_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.6, Display Driver: modesetting 1.20.6, OpenGL: 4.5 Mesa 19.3.1 (LLVM 9.0.0), Compiler: GCC 9.2.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-\_\_cxa\_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq schedutil - CPU Microcode: 0x8108109

Graphics Notes: GLAMOR

Java Notes: OpenJDK Runtime Environment (build 1.8.0\_232-b09)

Python Notes: Python 3.8.1

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

## Ubuntu 18.04.3 LTS

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Device 15d0, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Device 15de, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 5.0.0-37-generic (x86\_64), Desktop: GNOME Shell 3.28.4, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 19.0.8 (LLVM 8.0.0), Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x8108109

Graphics Notes: GLAMOR

Java Notes: OpenJDK Runtime Environment (build 11.0.5+10-post-Ubuntu-0ubuntu1.118.04)

Python Notes: Python 2.7.17 + Python 3.6.9

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

## Ubuntu 19.10

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: ASUS AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 19.10, Kernel: 5.3.0-24-generic (x86\_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Disk Notes: NONE / errors=remount-ro,relatime,rw

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x8108109

Graphics Notes: GLAMOR

Java Notes: OpenJDK Runtime Environment (build 11.0.5+10-post-Ubuntu-0ubuntu1.1)

Python Notes: Python 2.7.17 + Python 3.7.5

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

## openSUSE Tumbleweed

Processor: AMD Athlon 3000G @ 3.50GHz (2 Cores / 4 Threads), Motherboard: ASUS PRIME B350M-E (5220 BIOS), Chipset: AMD Raven/Raven2, Memory: 6144MB, Disk: Samsung SSD 970 EVO 250GB, Graphics: AMD Picasso 2GB (1100MHz), Audio: AMD Raven/Raven2/Fenghuang, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: openSUSE Tumbleweed 20191228, Kernel: 5.3.12-2-default (x86\_64), Desktop: KDE Plasma 5.17.4, Display Server: X Server 1.20.6, Display Driver: amdgpu 19.1.0, OpenGL: 4.5 Mesa 19.2.6 (LLVM 9.0.0), Compiler: GCC 9.2.1 20191209 [gcc-9-branch revision 279114], File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-suse-linux --disable-cet --disable-libc1 --disable-libssp --disable-libstdcxx-pch --disable-libvtv --disable-werror --enable-gnu-indirect-function --enable-languages=c,c++,objc,fortran,obj-c++,ada,go,d --enable-libphobos --enable-libstdcxx-allocator=new --enable-link-mutex --enable-linux-futex --enable-multilib --enable-offload-targets=hsa,nvptx-none=/usr/nvptx-none, --enable-plugin --enable-ssp --enable-version-specific-runtime-libs --host=x86\_64-suse-linux --mandir=/usr/share/man --with-arch-32=x86-64 --with-build-config=bootstrap-ito-lean --with-gcc-major-version-only --with-slibdir=/lib64 --with-tune=generic --without-cuda-driver --without-system-libunwind

Disk Notes: MQ-DEADLINE / relatime,rw,space\_cache,ssd,subvol=@/home,subvolid=264

Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0x8108109

Graphics Notes: GLAMOR

Java Notes: OpenJDK Runtime Environment (build 11.0.5+10-suse-2.1-x8664)

Python Notes: Python 2.7.17 + Python 3.7.3

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional STIBP: disabled RSB filling + tsx\_async\_abort: Not affected

	CentOS Stream	Clear Linux 31990	Debian Testing	EndeavourOS	Fedorain 31	Manjaro Workstation	Ubuntu 18.04.3 LTS	Ubuntu 19.10 LTS	openSUSE Tumbleweed
<b>Selenium - 99.10</b>	<b>135.55</b>	47.25	76.53	103.68	70.64	<b>44.24</b>	45.25	46.95	
<b>MotionMark - Firefox (Score)</b>									
Normalized	73.11%	100%	34.86%	56.46%	76.49%	52.11%	32.64%	33.38%	34.64%
Standard Deviation	14%	8.7%	21.4%	17.8%	15.9%	10.5%	11.5%	2.9%	13.5%

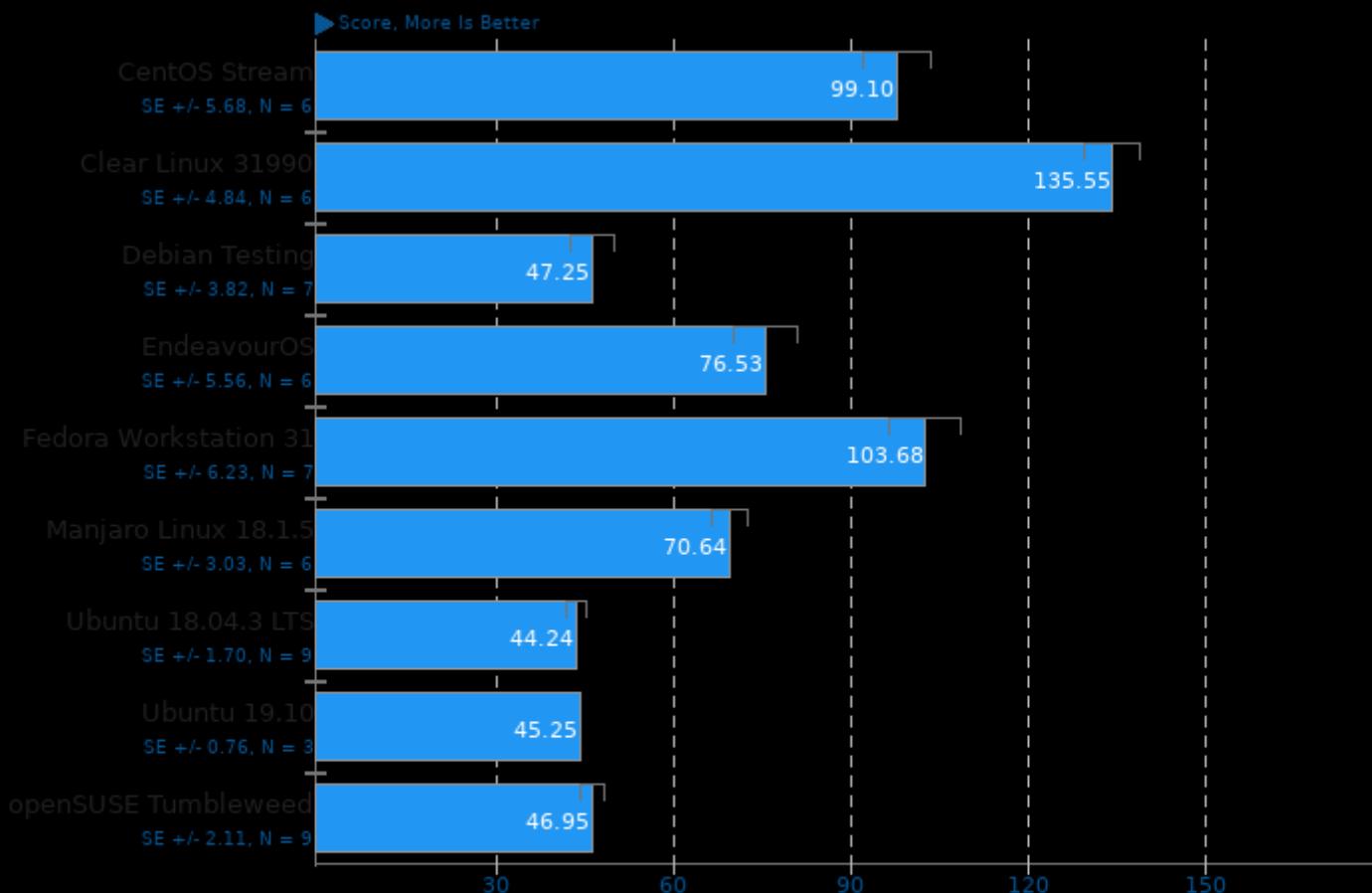
<b>Perl Benchmarks - Interpreter (sec)</b>	0.001183	0.001125	0.002095	<b>0.002237</b>	<b>0.001037</b>	0.001181	0.001266
Normalized	36	94	74	<b>16</b>	<b>99</b>	02	34
Standard Deviation	1.4%	1%	5.5%	46.4%	100%	87.89%	81.97%
<b>Selenium - Jetstream - Firefox (Score)</b>	155.57	<b>164.32</b>	152.96	152.80	162.47	153.03	<b>148.69</b>
Normalized	94.68%	100%	93.09%	92.99%	98.87%	93.13%	90.49%
Standard Deviation	0.6%	0.4%	0.7%	0.1%	0.2%	0.2%	0.1%
<b>Selenium - ARES-6 - Firefox (ms)</b>	74.95	61.31	<b>75.27</b>	67.64	<b>58.47</b>	66.51	73.48
Normalized	78.01%	95.37%	77.68%	86.44%	100%	87.91%	79.57%
Standard Deviation	0.3%	0.7%	1.3%	1.6%	0.9%	1.2%	0.8%
<b>Stockfish - Total Time (Nodes/s)</b>	<b>5747289</b>	5345249	5528913	5308655	5355844	5309202	<b>5233951</b>
Normalized	100%	93%	96.2%	92.37%	93.19%	92.38%	95.02%
Standard Deviation	0.6%	0.5%	1.5%	0.1%	0.9%	0.8%	1.3%
<b>Xonotic - 1920 x</b>	<b>78.71644</b>	<b>86.79603</b>	85.95700	80.21148	83.61662	80.06697	84.14136
<b>1080 - Ultimate (FPS)</b>	<b>13</b>	<b>44</b>	67	21	17	42	83
Normalized	90.69%	100%	99.03%	92.41%	96.34%	92.25%	96.94%
Standard Deviation	0%	0.2%	0.2%	0.1%	0.1%	0.2%	0.1%
<b>Perl Benchmarks - Pod2html (sec)</b>	0.174655	0.175738	0.177695		<b>0.178059</b>	0.176854	<b>0.173841</b>
Normalized	69	36	41		<b>85</b>	10	<b>30</b>
Standard Deviation	99.53%	98.92%	97.83%		97.63%	98.3%	100%
<b>Selenium - Speedometer - Firefox (Runs/min)</b>	56.6	<b>74.4</b>	55.9	71.41	74.2	71.66	<b>55.20</b>
Normalized	76.08%	100%	75.13%	95.98%	99.73%	96.32%	74.19%
Standard Deviation	0.2%	0.4%	0.2%	0.7%	0.6%	0.5%	0.7%
<b>TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)</b>	125.490	124.400	<b>125.588</b>	122.924	<b>117.926</b>	122.799	121.076
Normalized	99.92%	99.05%	100%	97.88%	93.9%	97.78%	96.41%
Standard Deviation	0.5%	0.5%	0.2%	0.2%	0.2%	0.1%	0.3%
<b>Xonotic - 1920 x</b>	<b>116.6398</b>	<b>134.4194</b>	130.3202	121.2609	127.0645	121.1820	127.8530
<b>1080 - Ultra (FPS)</b>	<b>679</b>	<b>385</b>	661	281	448	369	836
Normalized	86.77%	100%	96.95%	90.21%	94.53%	90.15%	95.12%
Standard Deviation	0.2%	0.3%	0.2%	0.4%	0.3%	0.4%	0.3%
<b>Selenium - StyleBench - Firefox (Runs / Minute)</b>	53.5	<b>65.5</b>	51.5	60.0	64.2	59.7	51.6
Normalized	81.68%	100%	78.63%	91.6%	98.02%	91.15%	78.78%
Standard Deviation	0.3%	0.3%	0.5%	0.8%	0.8%	0.4%	0.6%
<b>Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)</b>	72.505	69.215	72.361	73.668	74.570	73.608	<b>74.582</b>
Normalized	92.89%	97.31%	93.08%	91.43%	90.32%	91.5%	90.31%
Standard Deviation	0.8%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%
<b>Xonotic - 1920 x</b>	<b>153.6130</b>	<b>185.7034</b>	174.8251	163.1044	169.7903	162.9657	168.9960
<b>1080 - High (FPS)</b>	<b>792</b>	<b>223</b>	709	304	811	307	824
Normalized	82.72%	100%	94.14%	87.83%	91.43%	87.76%	91%
Standard Deviation	0.2%	0.2%	0.3%	0.2%	0.3%	0.2%	0.3%

<b>DeepSpeech - CPU (sec)</b>	<b>68.07025</b>	69.53448	70.98370	<b>83.44218</b>	68.24018	83.19555	73.33096	71.99508	71.62807
Normalized	100%	97.89%	95.9%	81.58%	99.75%	81.82%	92.83%	94.55%	95.03%
Standard Deviation	0.3%	0.2%	1.4%	0.8%	0.8%	1.2%	2.6%	0.5%	0.6%
<b>Himeno Benchmark - P.P.S (MFLOPS)</b>	<b>3938</b>	4002	3951	3950	<b>3917</b>	3938	4006	<b>4060</b>	4017
Normalized	97.01%	98.59%	97.33%	97.3%	96.5%	97.01%	98.68%	100%	98.95%
Standard Deviation	1.4%	0.3%	2.9%	0.8%	2.5%	1.2%	2.6%	1.6%	1.1%
<b>SVT-AV1 - Enc Mode 8 - 1080p (FPS)</b>	<b>5.927</b>	<b>6.202</b>	5.778	5.938	5.637	5.947	5.732	<b>4.939</b>	5.746
Normalized	95.57%	100%	93.16%	95.74%	90.89%	95.89%	92.42%	79.64%	92.65%
Standard Deviation	0.2%	0.1%	0.7%	0.1%	1.2%	0.1%	0.1%	1.9%	1.8%
<b>Java SciMark - 2223</b>	<b>2486</b>	2164	2156	2281	2477	2028	<b>2026</b>	2171	
<b>Composite (Mflops)</b>									
Normalized	89.41%	100%	87.05%	86.73%	91.72%	99.62%	81.55%	81.5%	87.32%
Standard Deviation	3%	0.8%	0.3%	0.8%	2.9%	0.5%	0.6%	0.5%	0.3%
<b>Smallpt - G.I.R.1.S (sec)</b>	<b>51.584</b>	<b>48.126</b>	52.822	52.649	51.068	52.532	<b>55.843</b>	52.469	50.905
Normalized	93.3%	100%	91.11%	91.41%	94.24%	91.61%	86.18%	91.72%	94.54%
Standard Deviation	0%	0%	0.1%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%
<b>Xonotic - 1920 x 1080 - Low (FPS)</b>	<b>269.9248</b>	<b>313.9943</b>	290.3139	294.8079	283.0846	295.0856	282.0313	289.0933	295.5687
Normalized	85.96%	100%	92.46%	93.89%	90.16%	93.98%	89.82%	92.07%	94.13%
Standard Deviation	0.4%	0.2%	0.4%	0.2%	0.3%	0.5%	0.6%	1.3%	0.8%
<b>x265 - H.2.1.V.E (FPS)</b>	<b>14.44</b>	<b>14.55</b>	14.42	14.38	14.21	14.37	<b>14.11</b>	14.31	14.41
Normalized	99.24%	100%	99.11%	98.83%	97.66%	98.76%	96.98%	98.35%	99.04%
Standard Deviation	0.6%	0.3%	0.3%	0.2%	0.1%	0.2%	0%	0.2%	0.1%
<b>PyBench - T.F.A.T.T (Milliseconds)</b>	<b>1808</b>	<b>1221</b>	1349	1550	1783	1546	1424	1325	1688
Normalized	67.53%	100%	90.51%	78.77%	68.48%	78.98%	85.74%	92.15%	72.33%
Standard Deviation	0.3%	1.6%	0.1%	0.5%	0.5%	0.4%	0.7%	0.3%	
<b>Tesseract - 1920 x 1080 (FPS)</b>		<b>89.92226</b>	89.22670	<b>84.87431</b>	85.33387	84.95729	88.26902	89.06557	
Normalized		100%	99.23%	94.39%	94.9%	94.48%	98.16%	99.05%	
Standard Deviation		0.1%	0.4%	0.4%	0.6%	0.3%	0.5%	0.3%	
<b>Selenium - PSPDFKit WASM - Firefox (Score)</b>	<b>2098</b>	<b>1996</b>	2167	2093	2079	2072	2207	<b>2238</b>	2161
Normalized	95.14%	100%	92.11%	95.37%	96.01%	96.33%	90.44%	89.19%	92.36%
Standard Deviation	1.2%	1.2%	0.6%	0.5%	0.9%	0.9%	0.8%	0.1%	0.3%
<b>dav1d - S.N.1 (FPS)</b>	<b>136.17</b>	<b>144.95</b>	130.11	130.87	129.36	130.48	128.95	<b>126.32</b>	130.79
Normalized	93.94%	100%	89.76%	90.29%	89.24%	90.02%	88.96%	87.15%	90.23%
Standard Deviation	0.2%	0%	0.4%	0.3%	0.3%	0%	0.2%	2%	0.3%
<b>Selenium - Maze</b>	<b>5.3</b>	4.7	<b>5.7</b>	5.3	<b>4.5</b>	5.4	5.6	<b>5.7</b>	5.3
<b>Solver - Firefox (sec)</b>									
Normalized	84.91%	95.74%	78.95%	84.91%	100%	83.33%	80.36%	78.95%	84.91%
Standard Deviation	1.1%	2.5%	1%	0%	0%	1.1%	1.8%	0%	1.1%
<b>FLAC Audio Encoding - WAV To</b>	<b>11.099</b>	<b>10.186</b>	11.065	11.156	10.997	<b>11.162</b>	10.965	11.040	10.949
Normalized	91.77%	100%	92.06%	91.31%	92.63%	91.26%	92.9%	92.26%	93.03%
Standard Deviation	0.2%	0.4%	0.9%	0.4%	0.2%	0.3%	0.4%	0.2%	0.2%

<b>ParaView - Wavelet</b>	<b>228.691</b>	<b>262.597</b>	237.909	236.518	238.927	235.296	234.389	239.181	238.086
<b>Contour - 1920 x 1080 (MiPolys / Sec)</b>									
Normalized	87.09%	100%	90.6%	90.07%	90.99%	89.6%	89.26%	91.08%	90.67%
Standard Deviation	0.1%	0.1%	0.2%	1.9%	0.7%	1.1%	0.7%	0.2%	0.1%
<b>ParaView - Wavelet</b>	<b>21.94</b>	<b>25.20</b>	22.83	22.70	22.93	22.58	22.49	22.95	22.85
<b>Contour - 1920 x 1080 (Frames / Sec)</b>									
Normalized	87.06%	100%	90.6%	90.08%	90.99%	89.6%	89.25%	91.07%	90.67%
Standard Deviation	0.1%	0.1%	0.2%	1.9%	0.7%	1.1%	0.7%	0.2%	0.1%
<b>Git - T.T.C.C.G.C (sec)</b>	<b>6.893</b>	<b>6.336</b>	6.551	6.673	6.495	6.669	6.550	6.506	6.626
Normalized	91.92%	100%	96.72%	94.95%	97.55%	95.01%	96.73%	97.39%	95.62%
Standard Deviation	1.2%	0.4%	2.8%	0.9%	2.9%	0.4%	2%	2.2%	0.6%
<b>ParaView - Wavelet</b>	<b>470.487</b>	465.341	460.468	448.194	454.334	458.331	<b>445.009</b>	461.761	453.563
<b>Volume - 1920 x 1080 (MiVoxels / Sec)</b>									
Normalized	100%	98.91%	97.87%	95.26%	96.57%	97.42%	94.58%	98.15%	96.4%
Standard Deviation	0.8%	0.8%	0.5%	1.2%	1.1%	1.7%	0.8%	1.7%	1.2%
<b>ParaView - Wavelet</b>	<b>29.41</b>	29.08	28.78	28.01	28.39	28.65	<b>27.81</b>	28.86	28.35
<b>Volume - 1920 x 1080 (Frames / Sec)</b>									
Normalized	100%	98.88%	97.86%	95.24%	96.53%	97.42%	94.56%	98.13%	96.4%
Standard Deviation	0.7%	0.8%	0.5%	1.2%	1.1%	1.7%	0.8%	1.7%	1.2%
<b>ctx_clock - C.S.T (Clocks)</b>	<b>315</b>	<b>210</b>	<b>210</b>	<b>315</b>	<b>210</b>	<b>315</b>	<b>210</b>	<b>210</b>	245
Normalized	66.67%	100%	100%	66.67%	100%	66.67%	100%	100%	85.71%
<b>Systemd Total Boot Time - Kernel (ms)</b>		<b>1688</b>	2676		2215	2499	2386	2070	<b>2733</b>
Normalized	100%	63.08%			76.21%	67.55%	70.75%	81.55%	61.76%

## Selenium

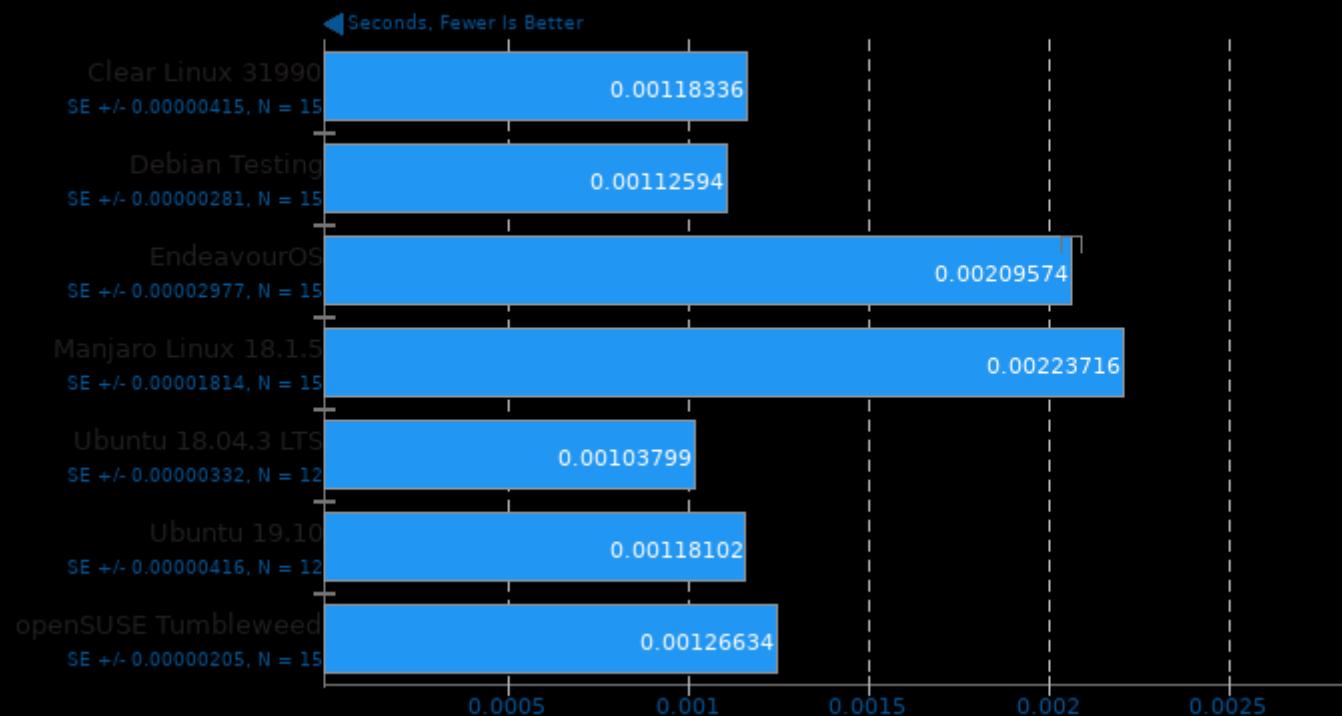
Benchmark: MotionMark - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

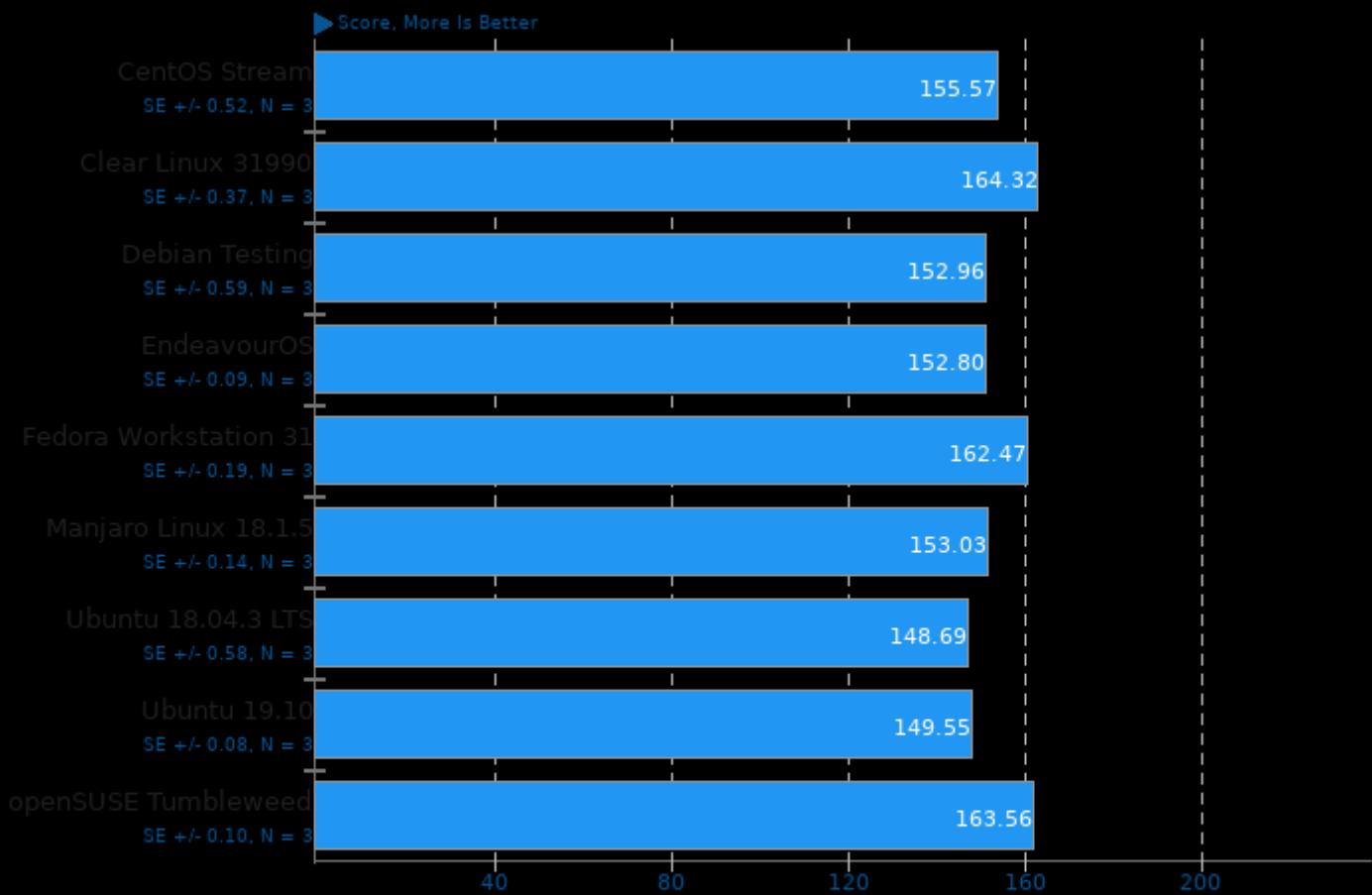
## Perl Benchmarks

Test: Interpreter



## Selenium

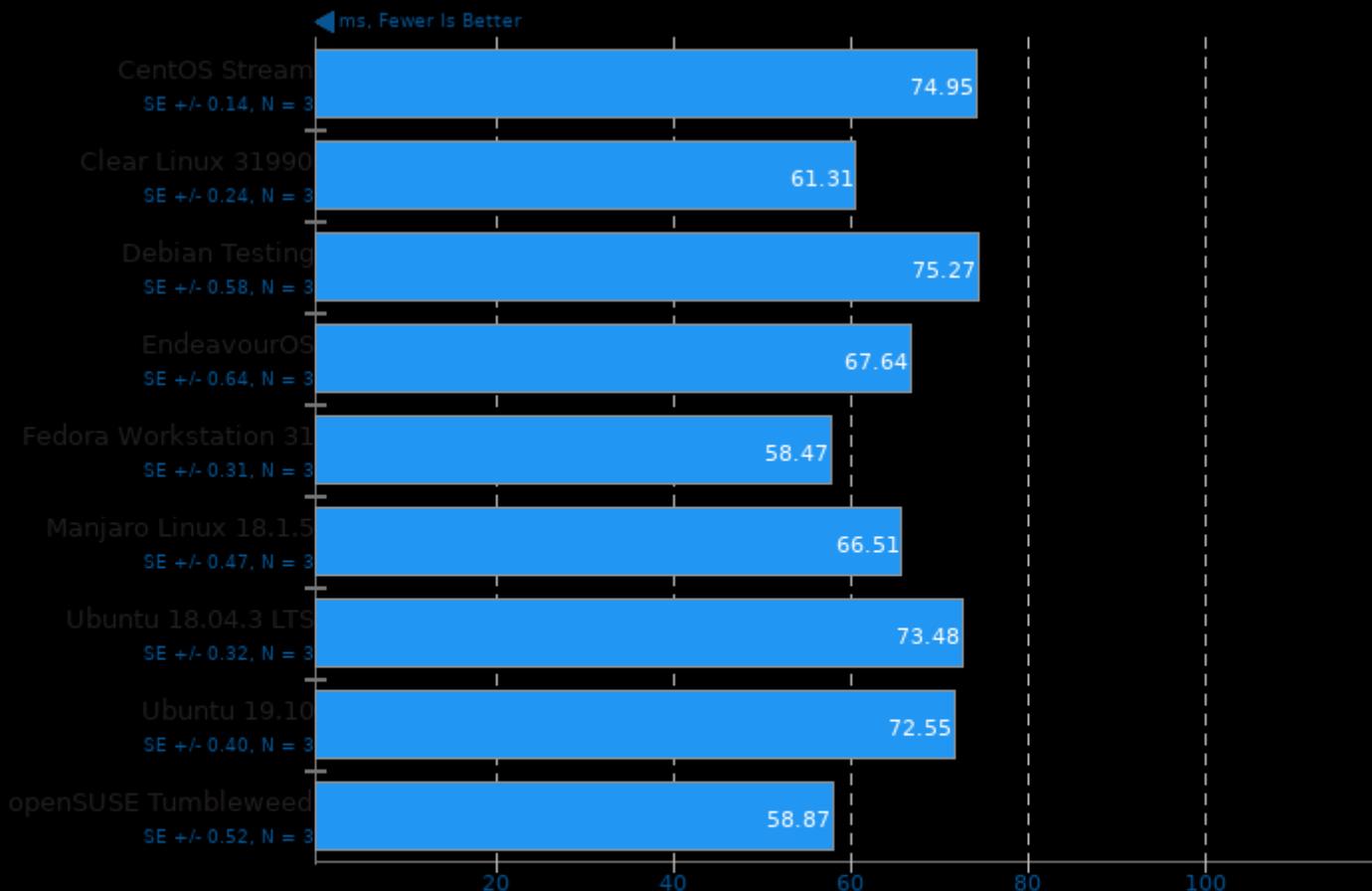
Benchmark: Jetstream - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

## Selenium

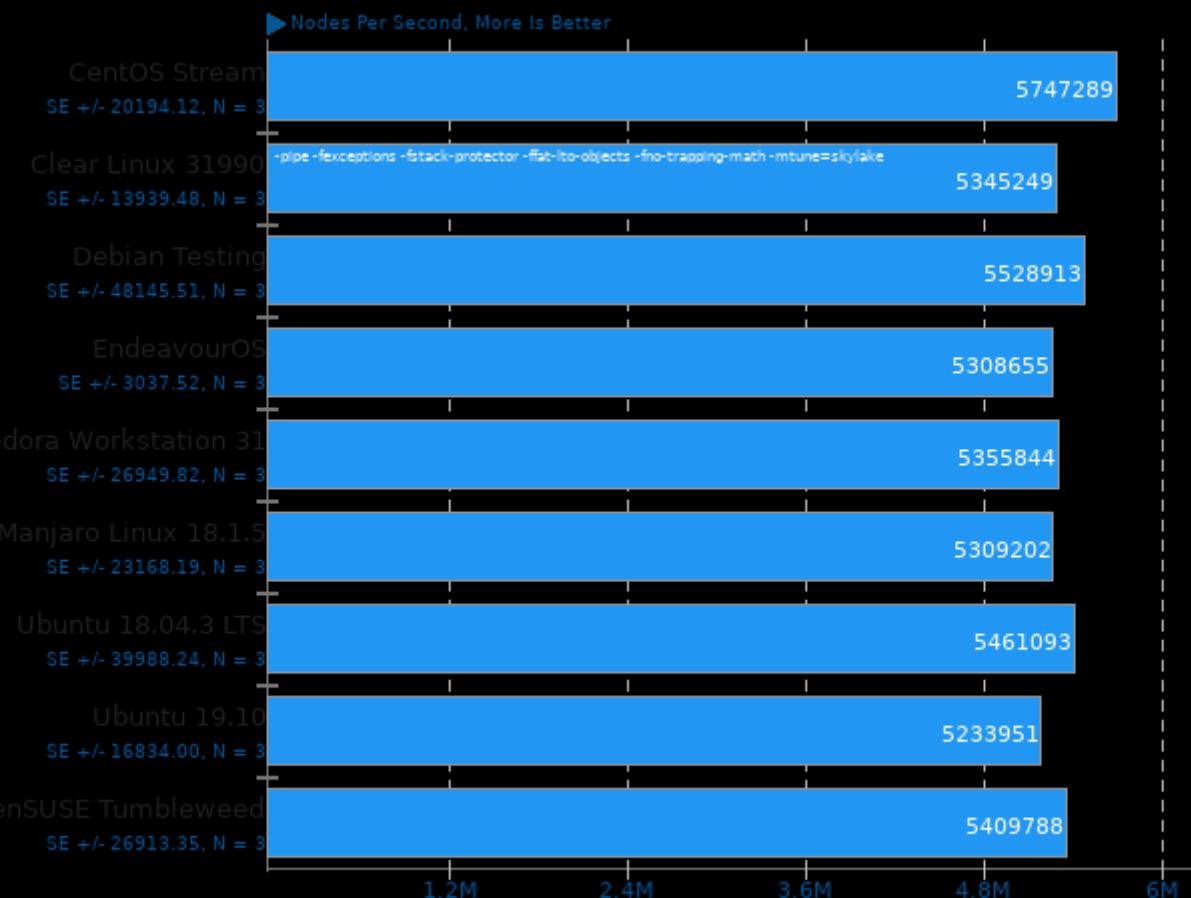
Benchmark: ARES-6 - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

## Stockfish 9

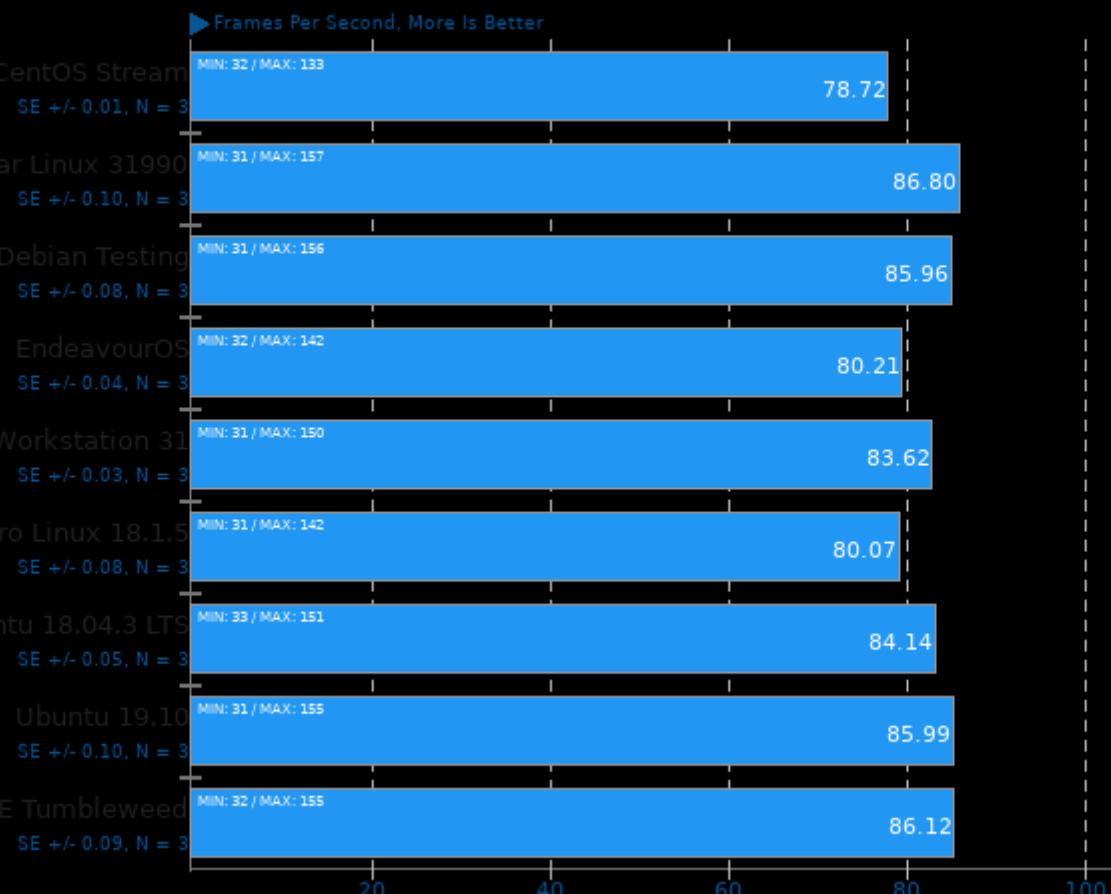
Total Time



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -fno-

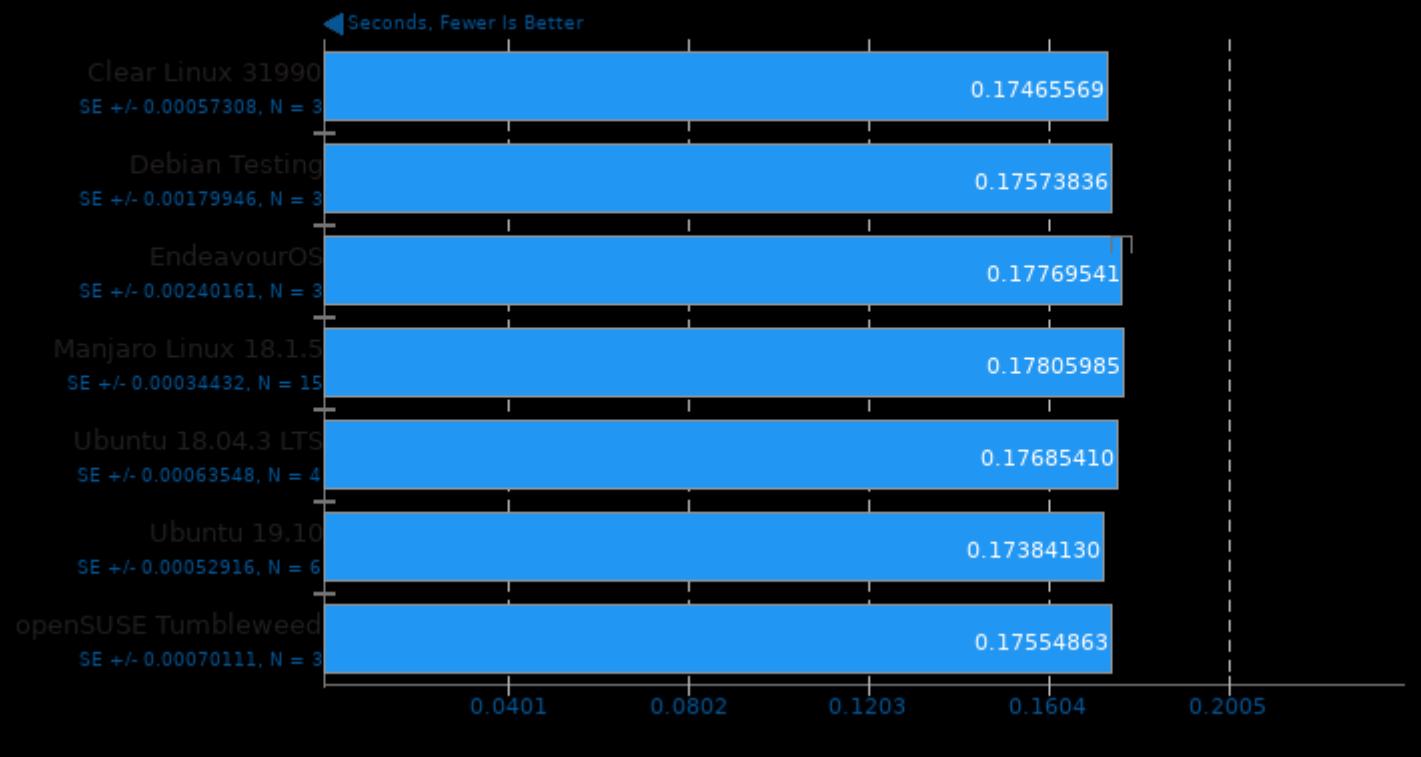
## Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Ultimate



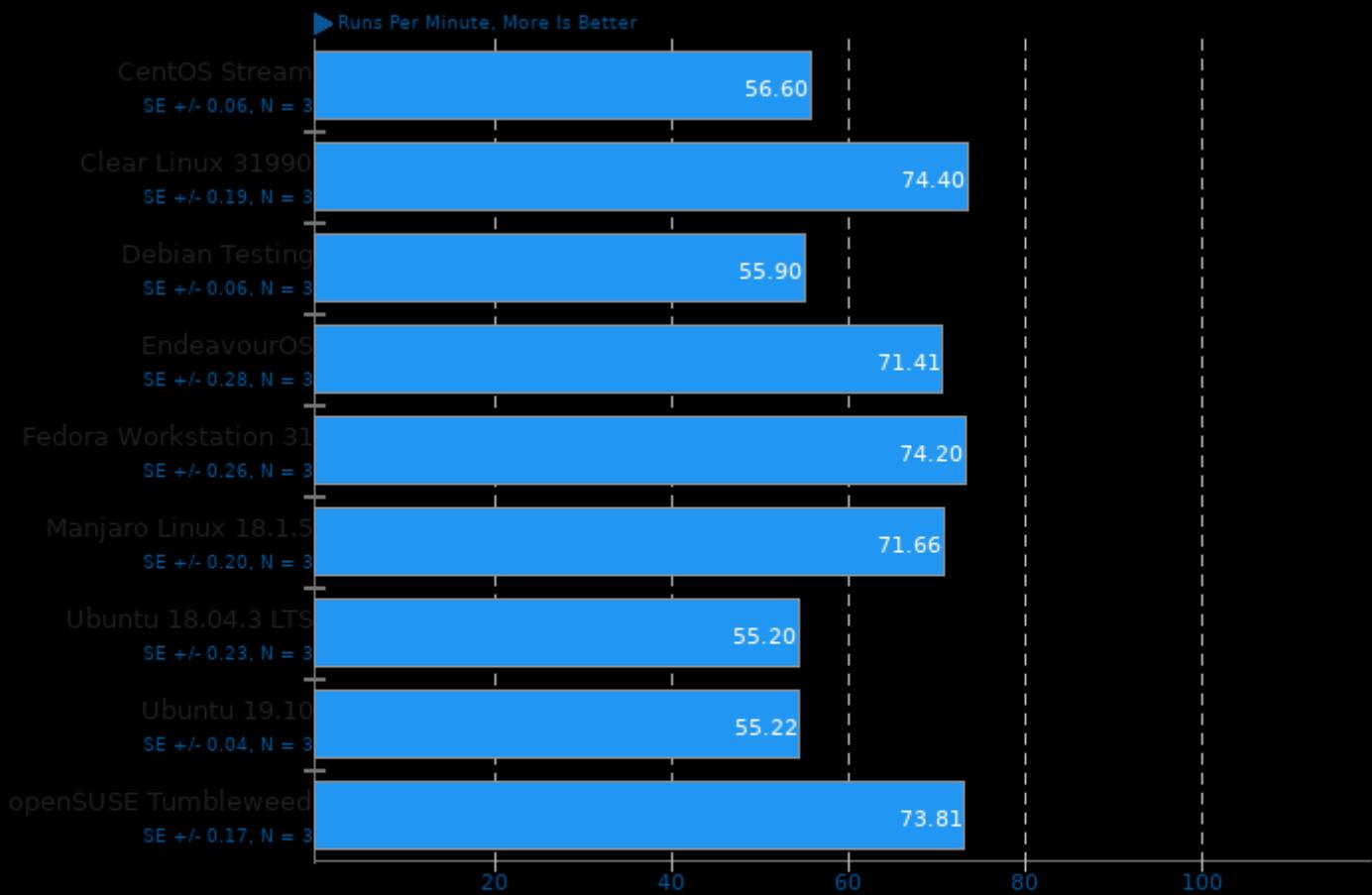
## Perl Benchmarks

Test: Pod2html



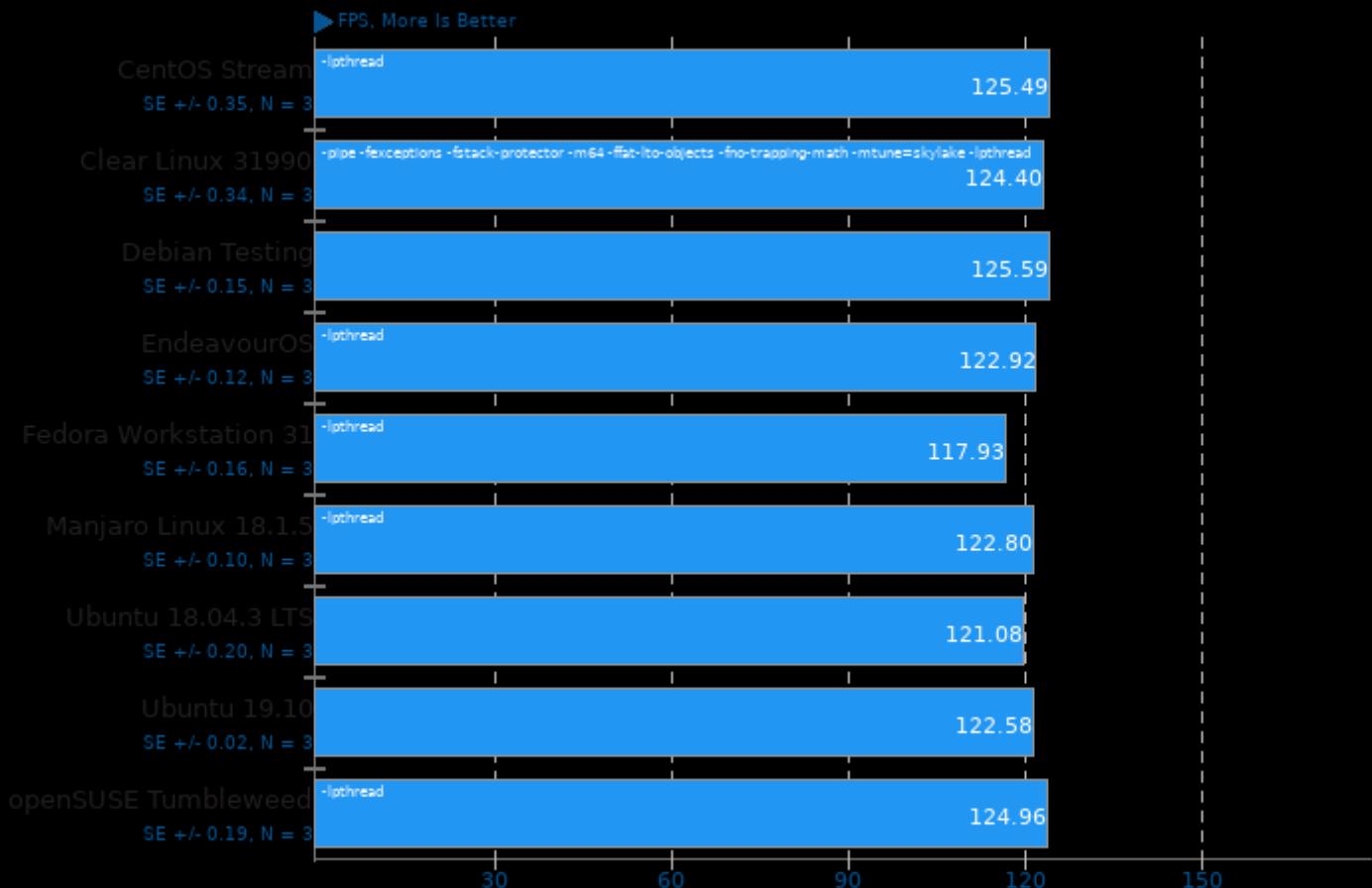
## Selenium

Benchmark: Speedometer - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

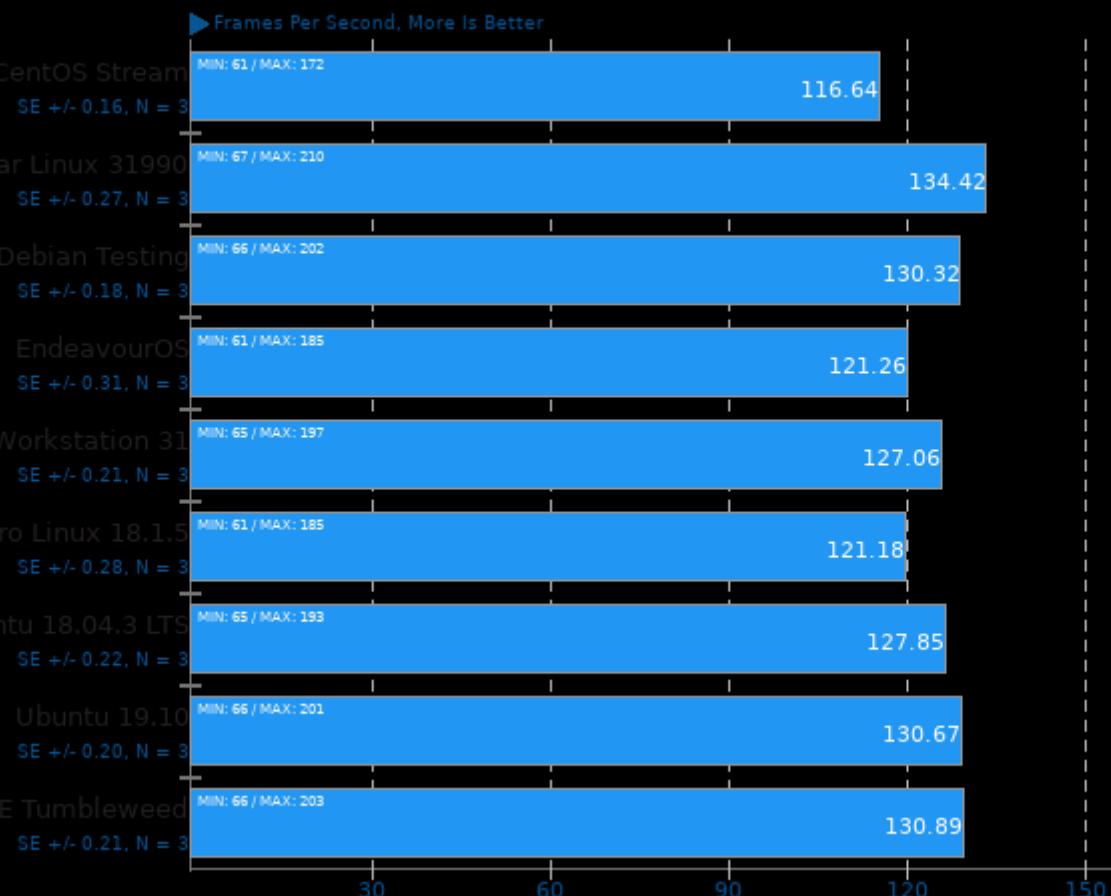
## TTSIOD 3D Renderer 2.3b Phong Rendering With Soft-Shadow Mapping



1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -fno -msse -mrecip -mfpmath=sse -msse2 -msse3 -fopenmp -fwhole-pr

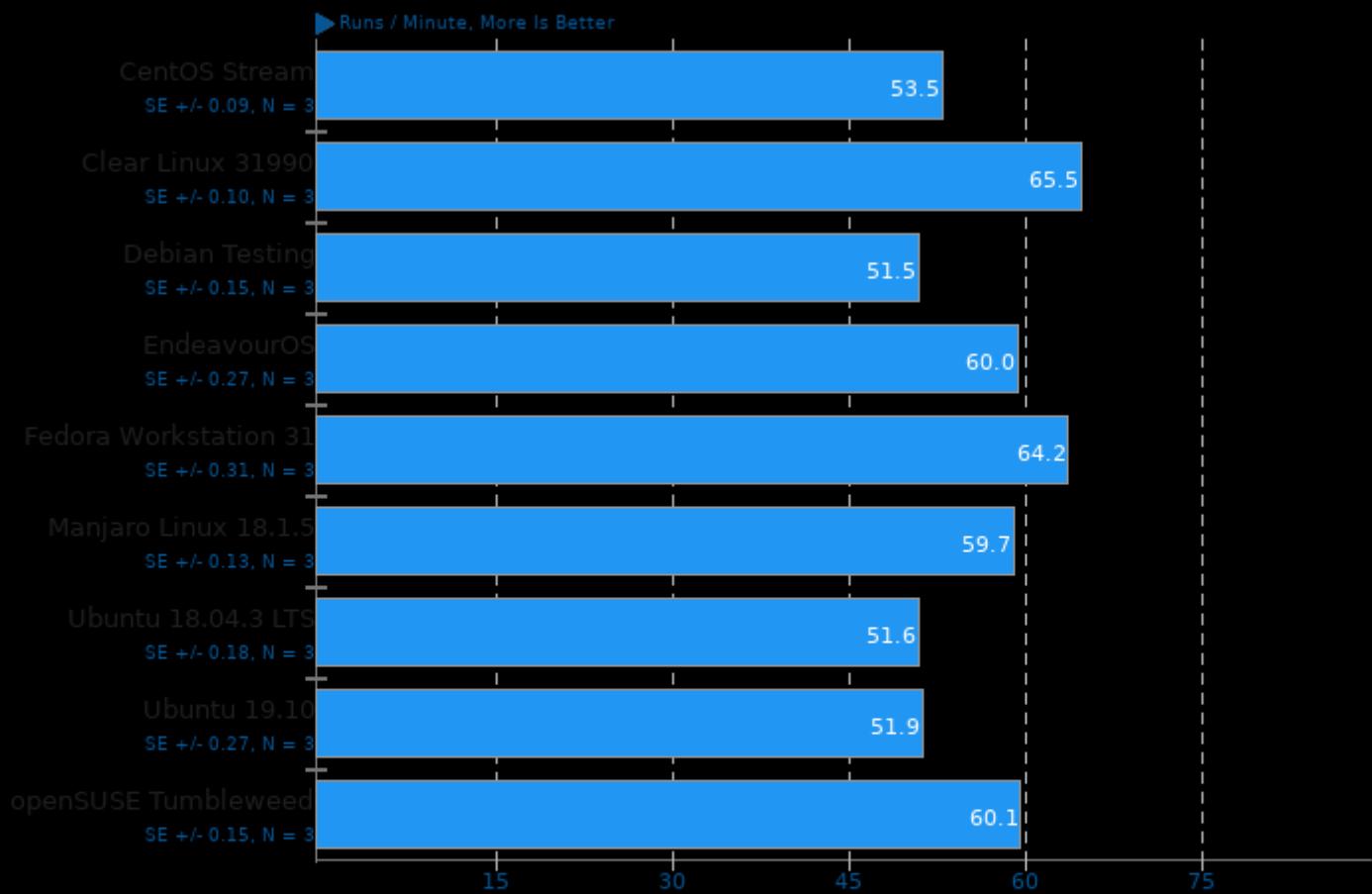
## Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Ultra



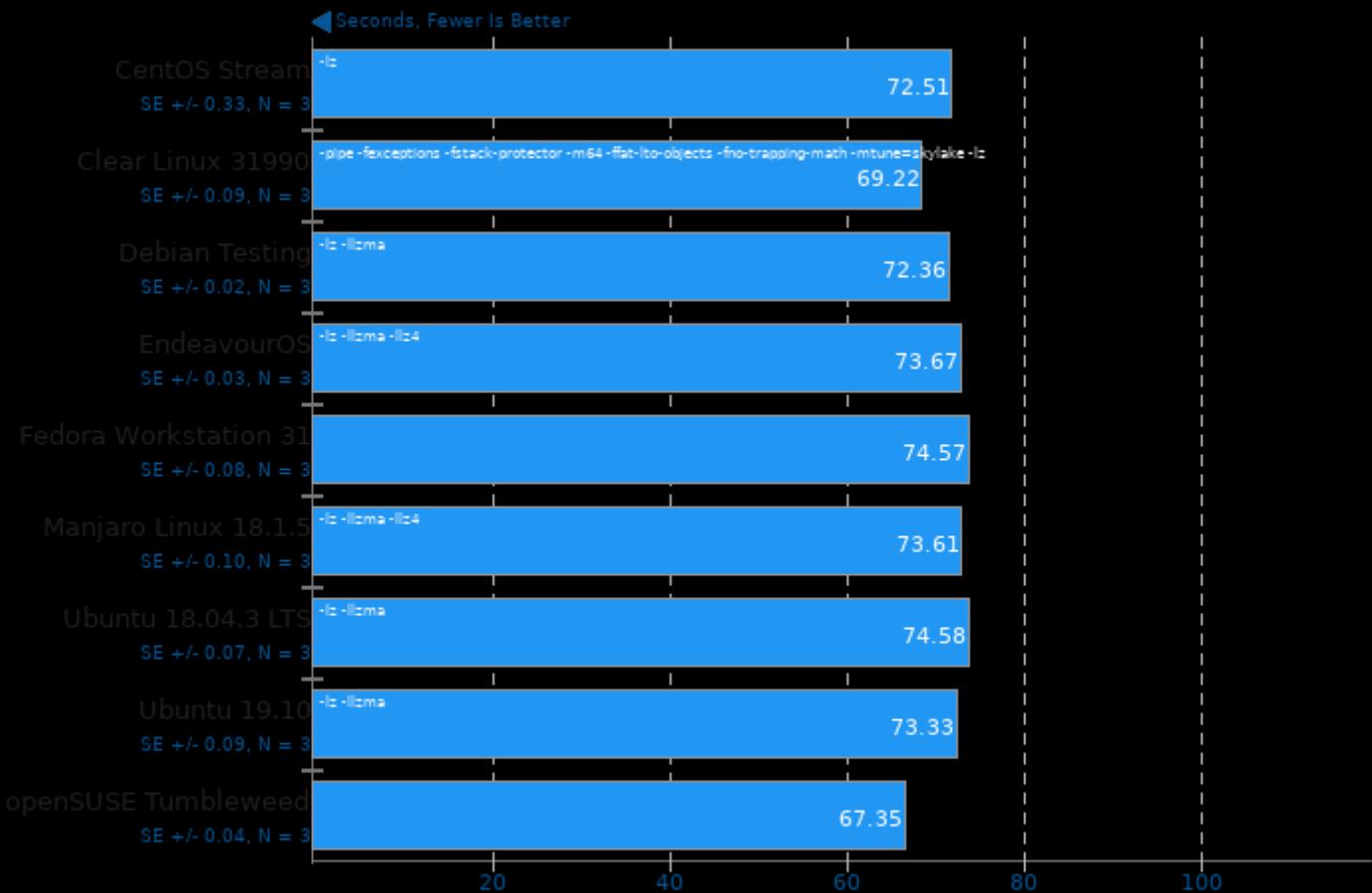
## Selenium

Benchmark: StyleBench - Browser: Firefox



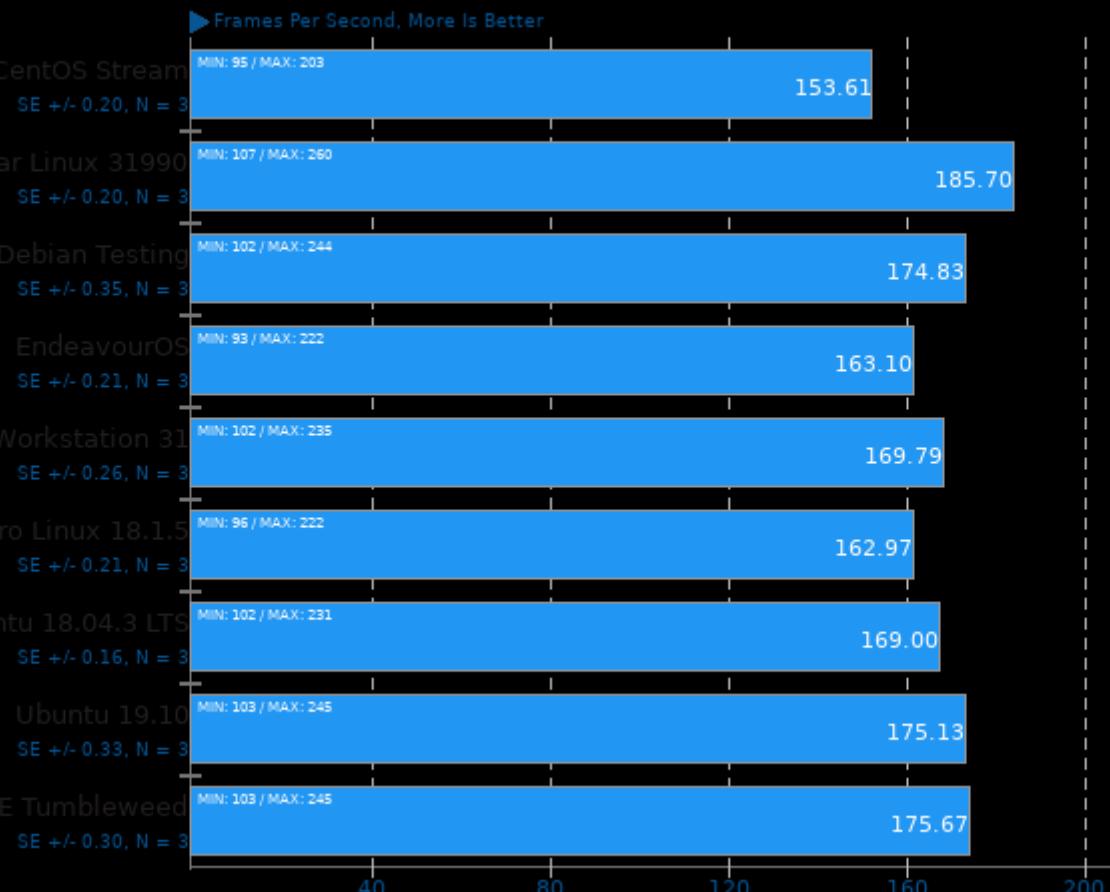
1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

## Zstd Compression 1.3.4



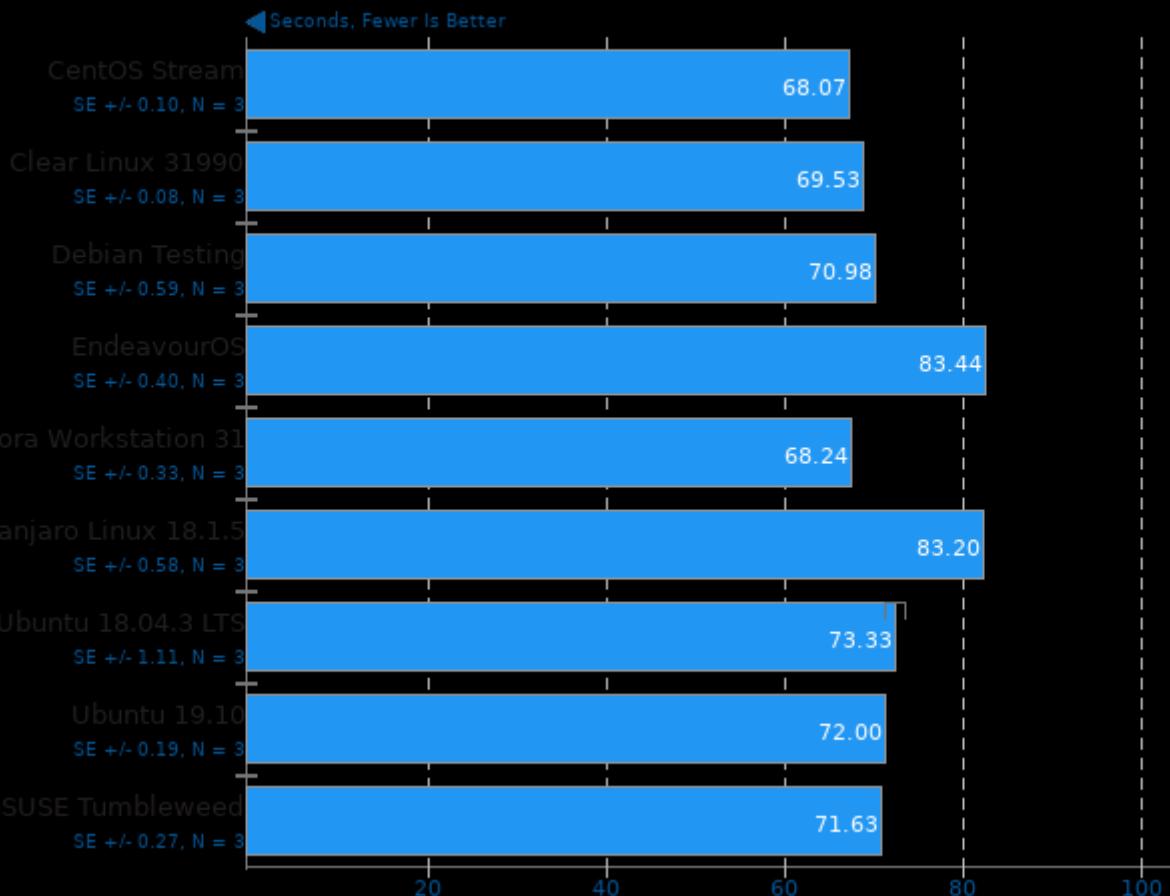
## Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: High



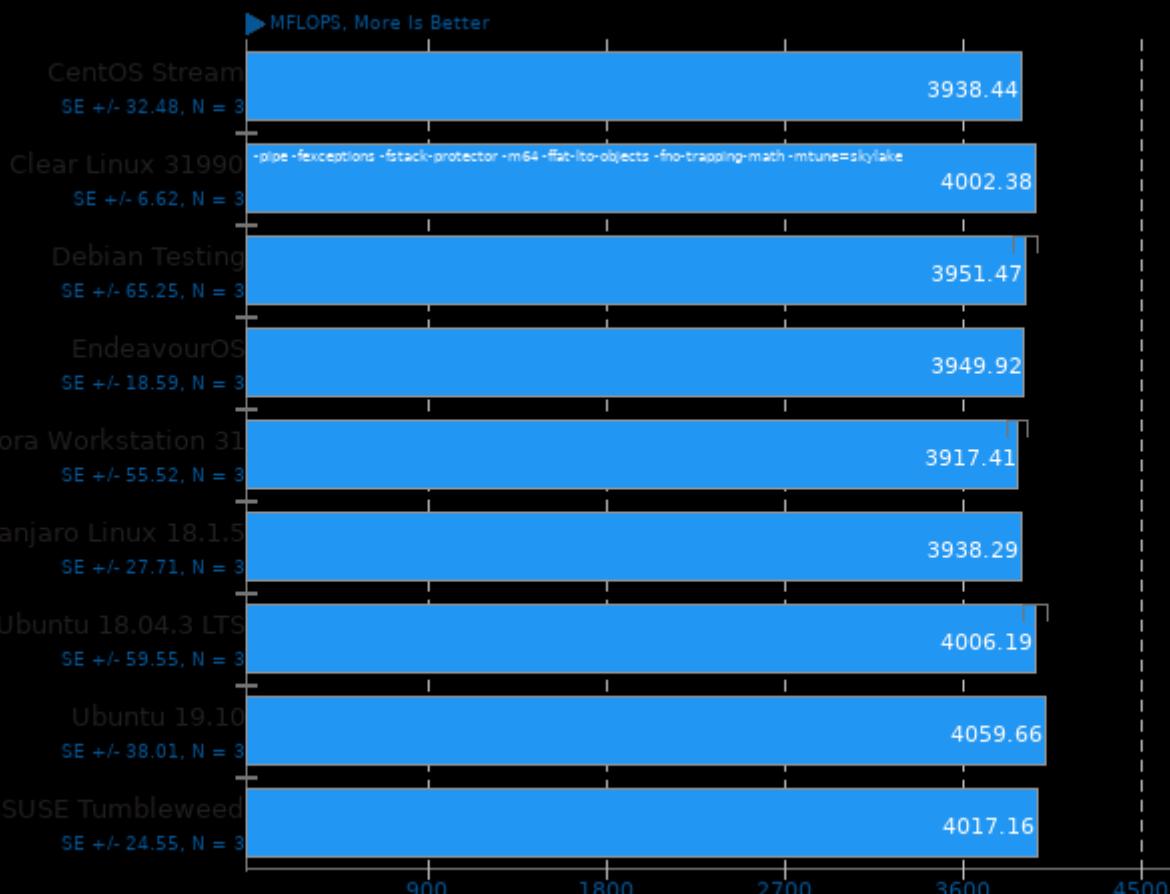
## DeepSpeech 0.6

Acceleration: CPU



## Himeno Benchmark 3.0

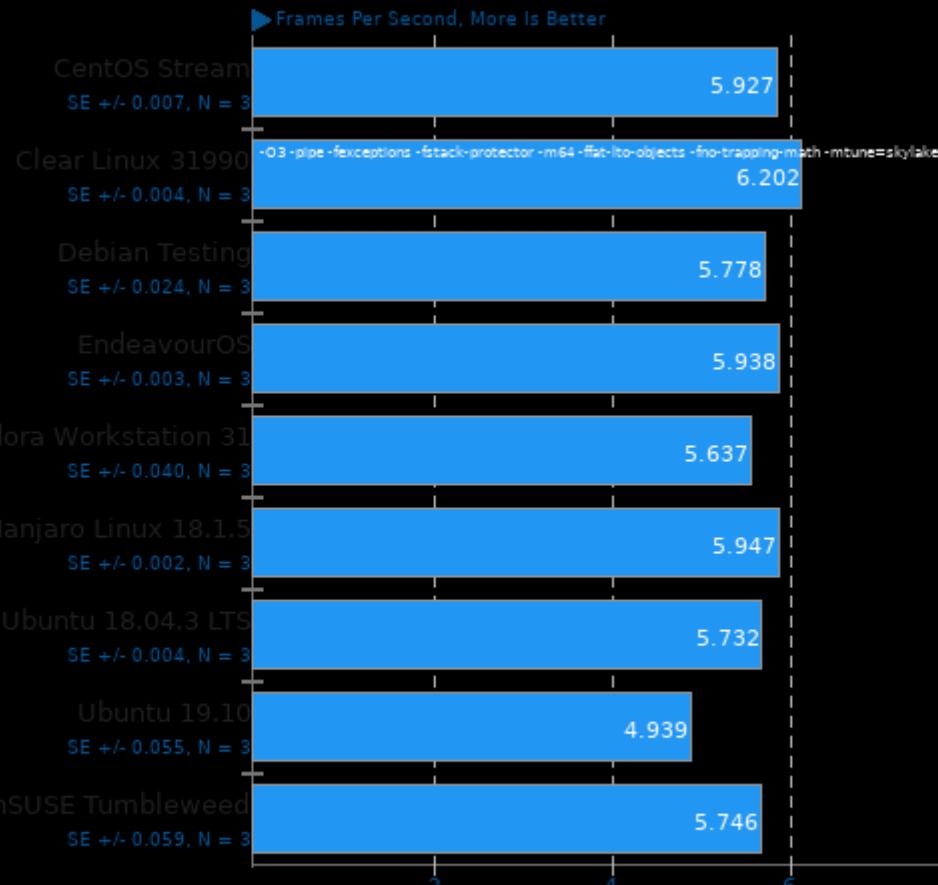
Poisson Pressure Solver



1. (CC) gcc options: -O3 -mavx2

## SVT-AV1 0.8

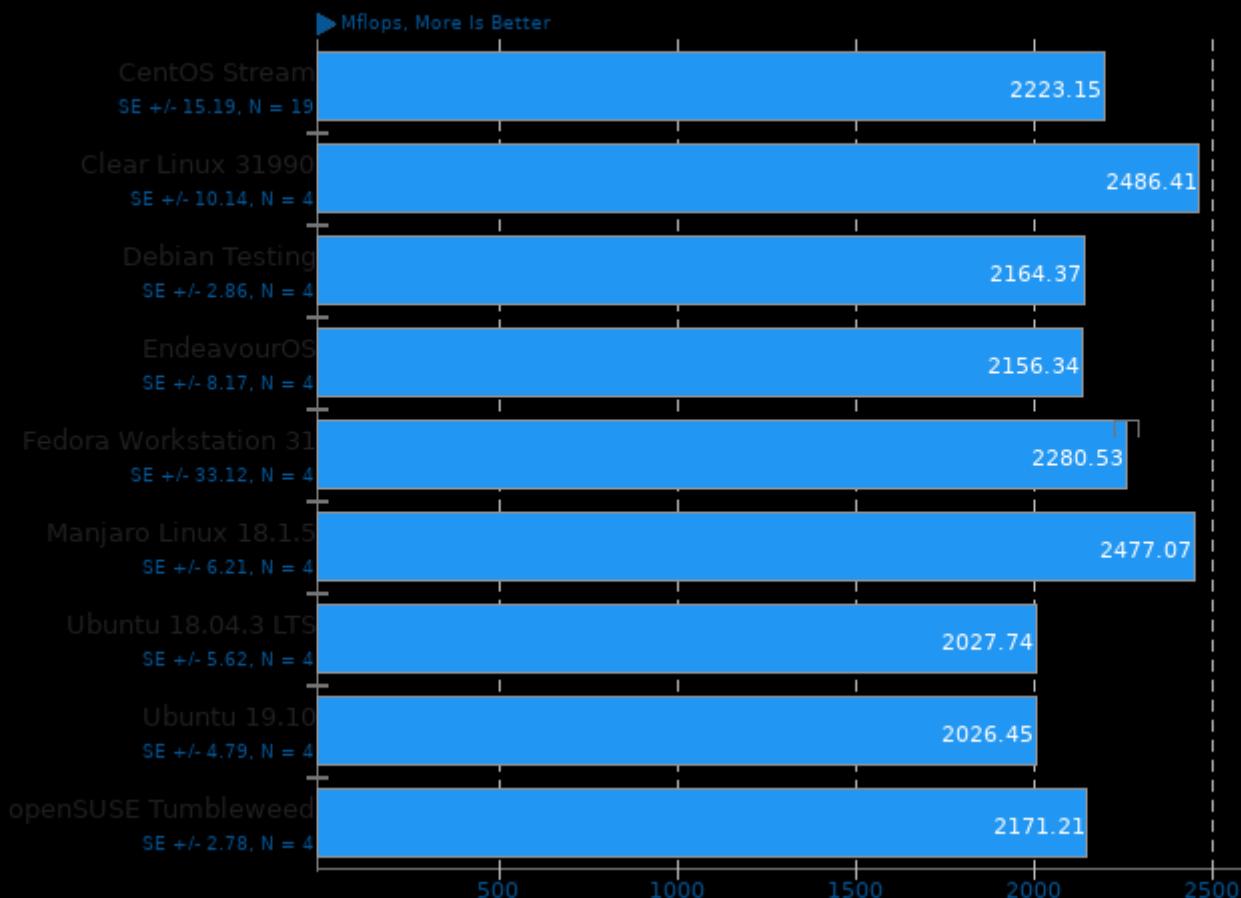
Encoder Mode: Enc Mode 8 - Input: 1080p



1. (CXX) g++ options: -fPIE -fPIC -pie

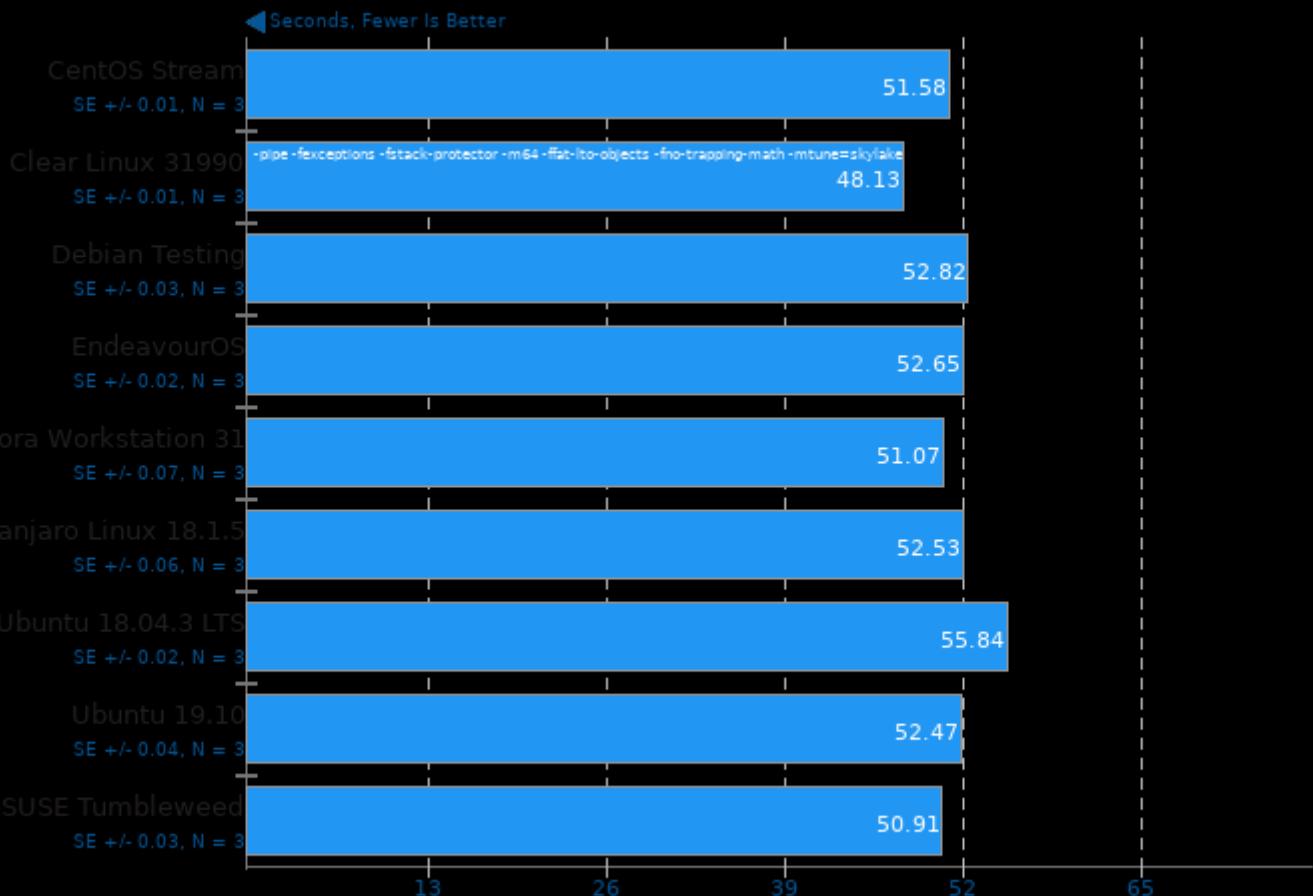
## Java SciMark 2.0

Computational Test: Composite



## Smallpt 1.0

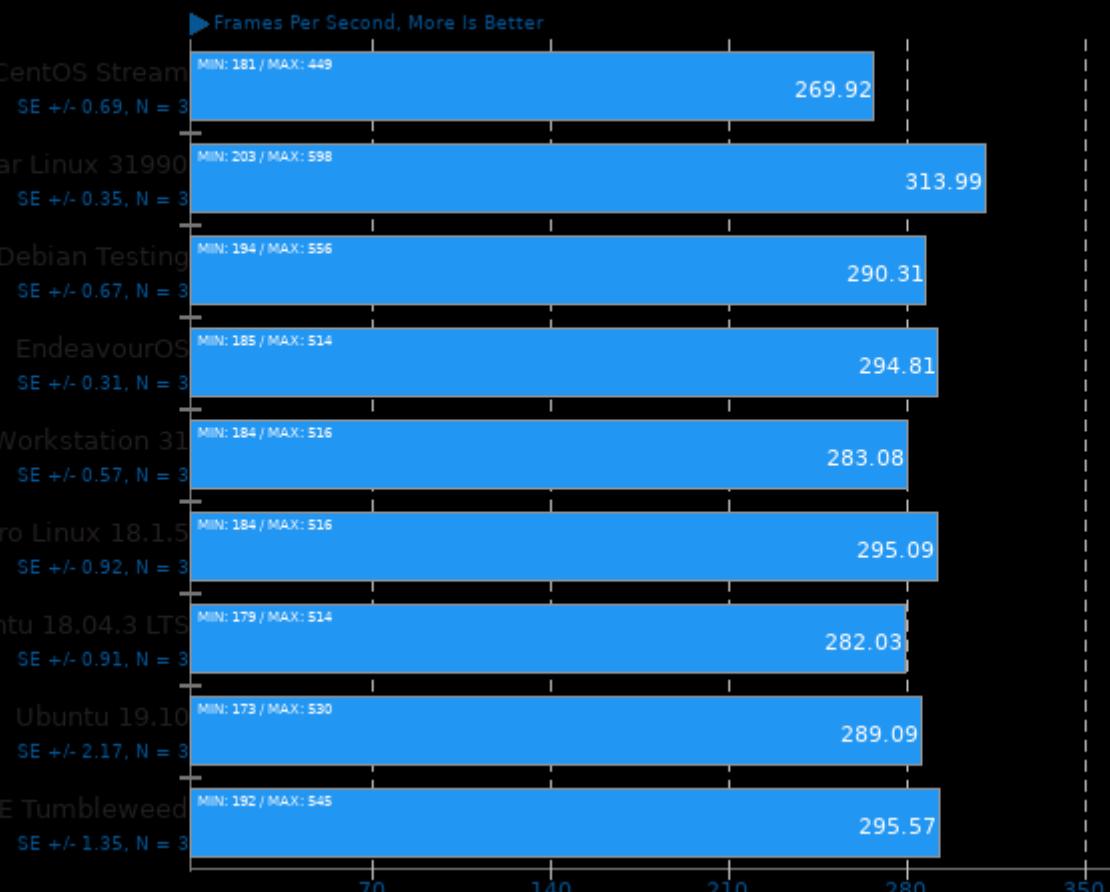
Global Illumination Renderer; 128 Samples



1. (CXX) g++ options: -fopenmp -O3

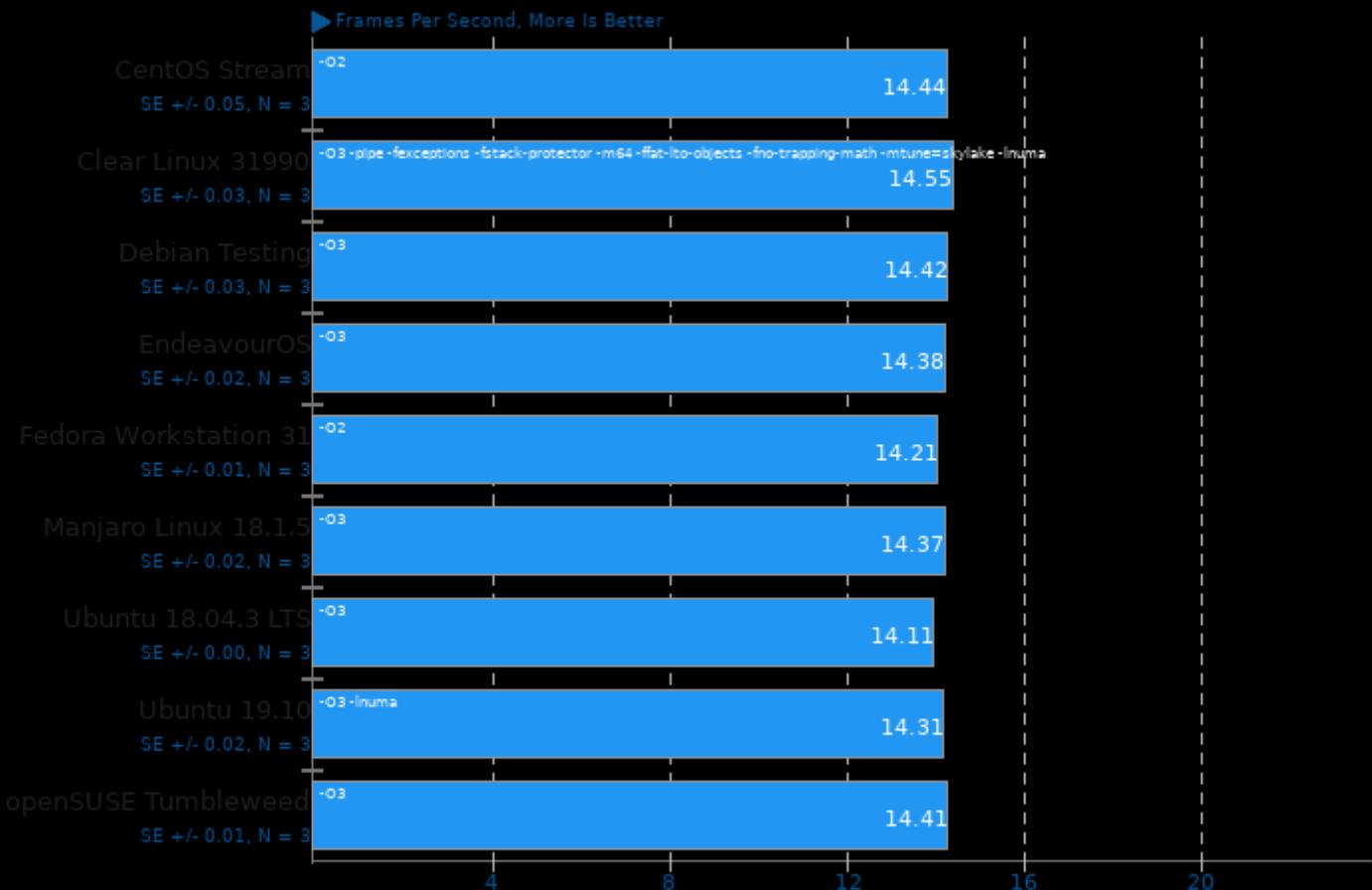
## Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Low



**x265 3.1.2**

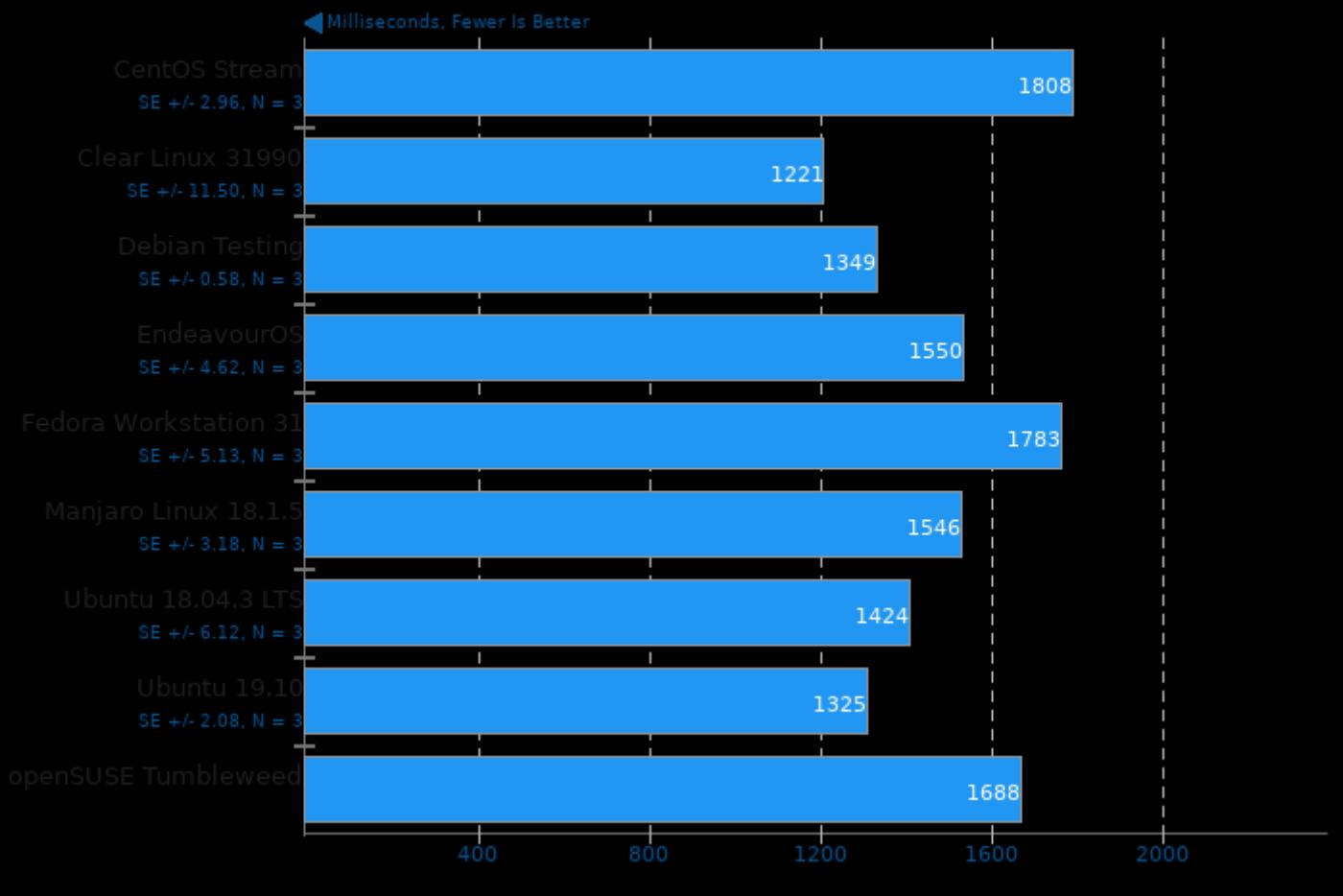
H.265 1080p Video Encoding



1. (CXX) g++ options: -rdynamic -lpthread -lrt -ldl

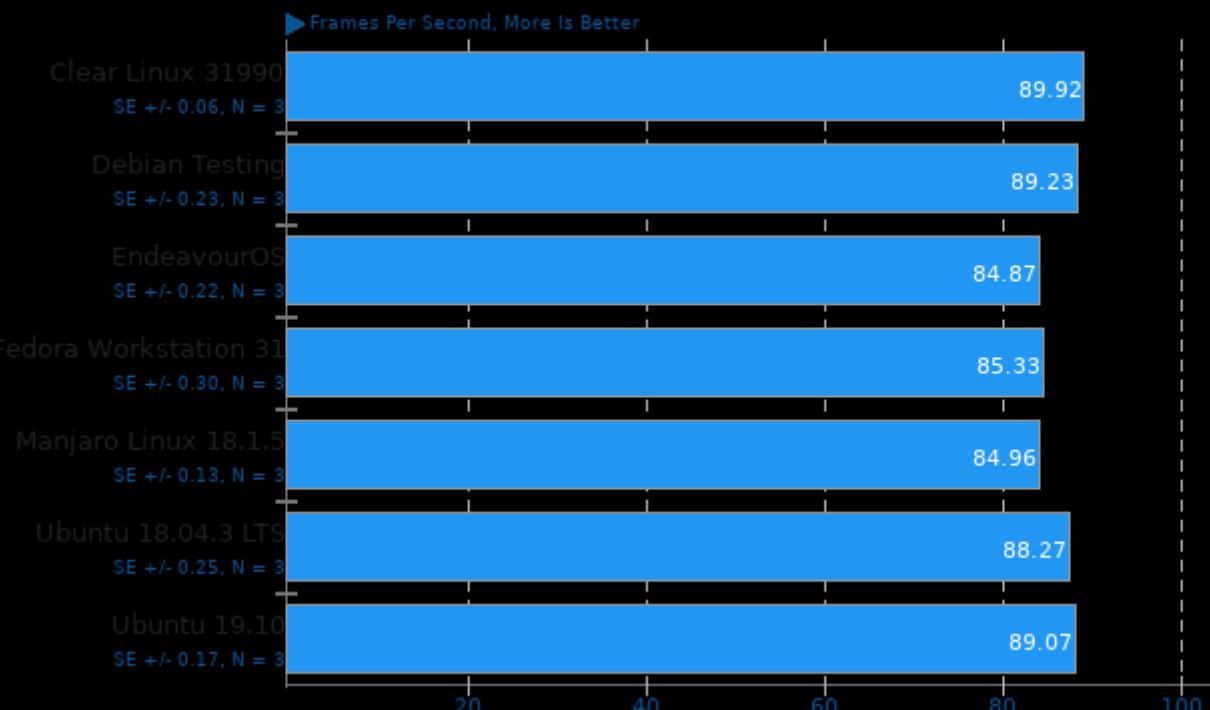
## PyBench 2018-02-16

Total For Average Test Times



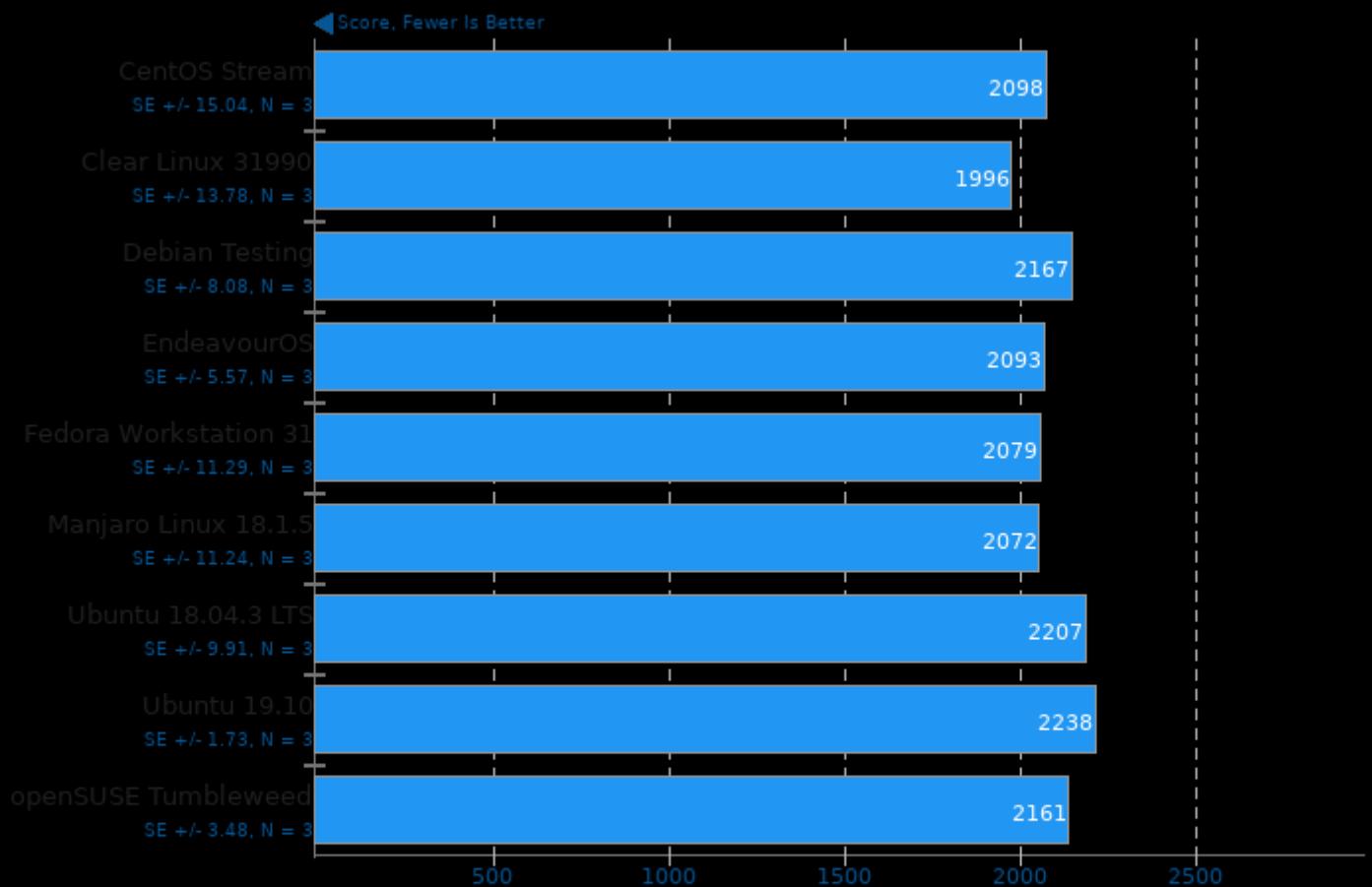
## Tesseract 2014-05-12

Resolution: 1920 x 1080



## Selenium

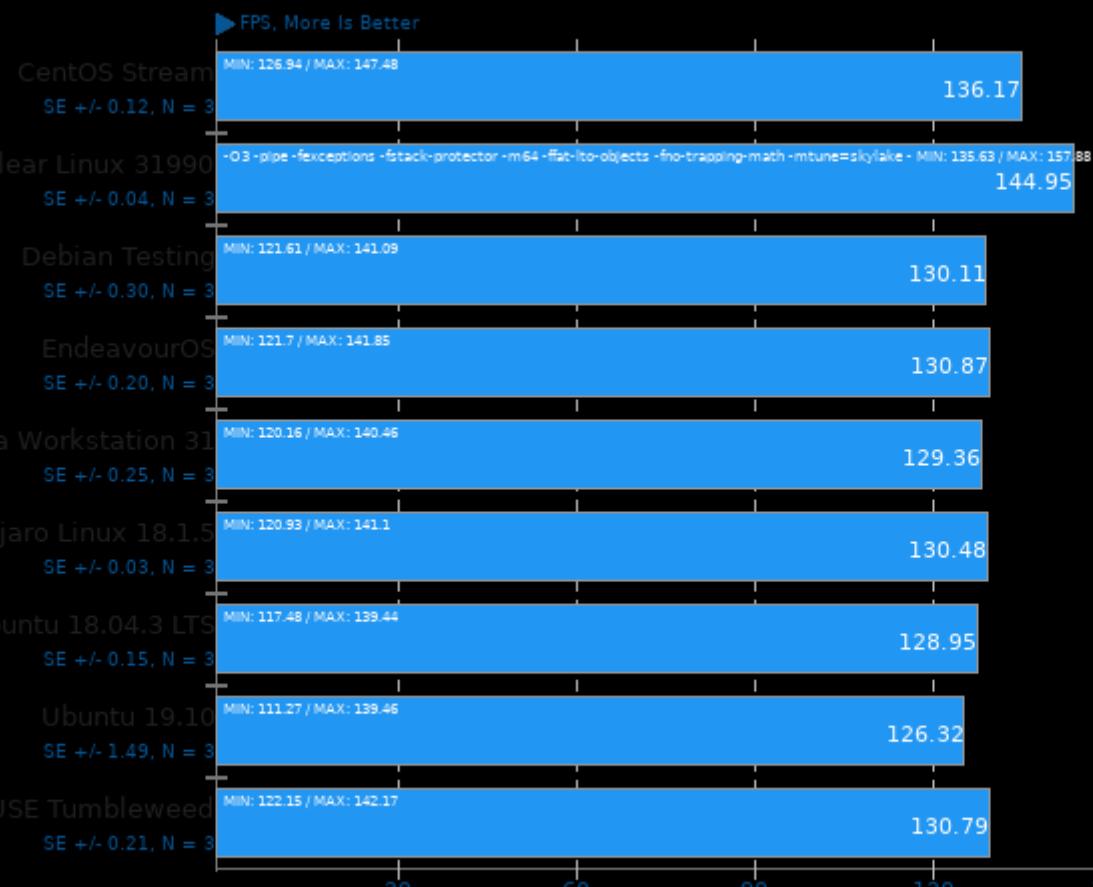
Benchmark: PSPDFKit WASM - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

**dav1d 0.5.0**

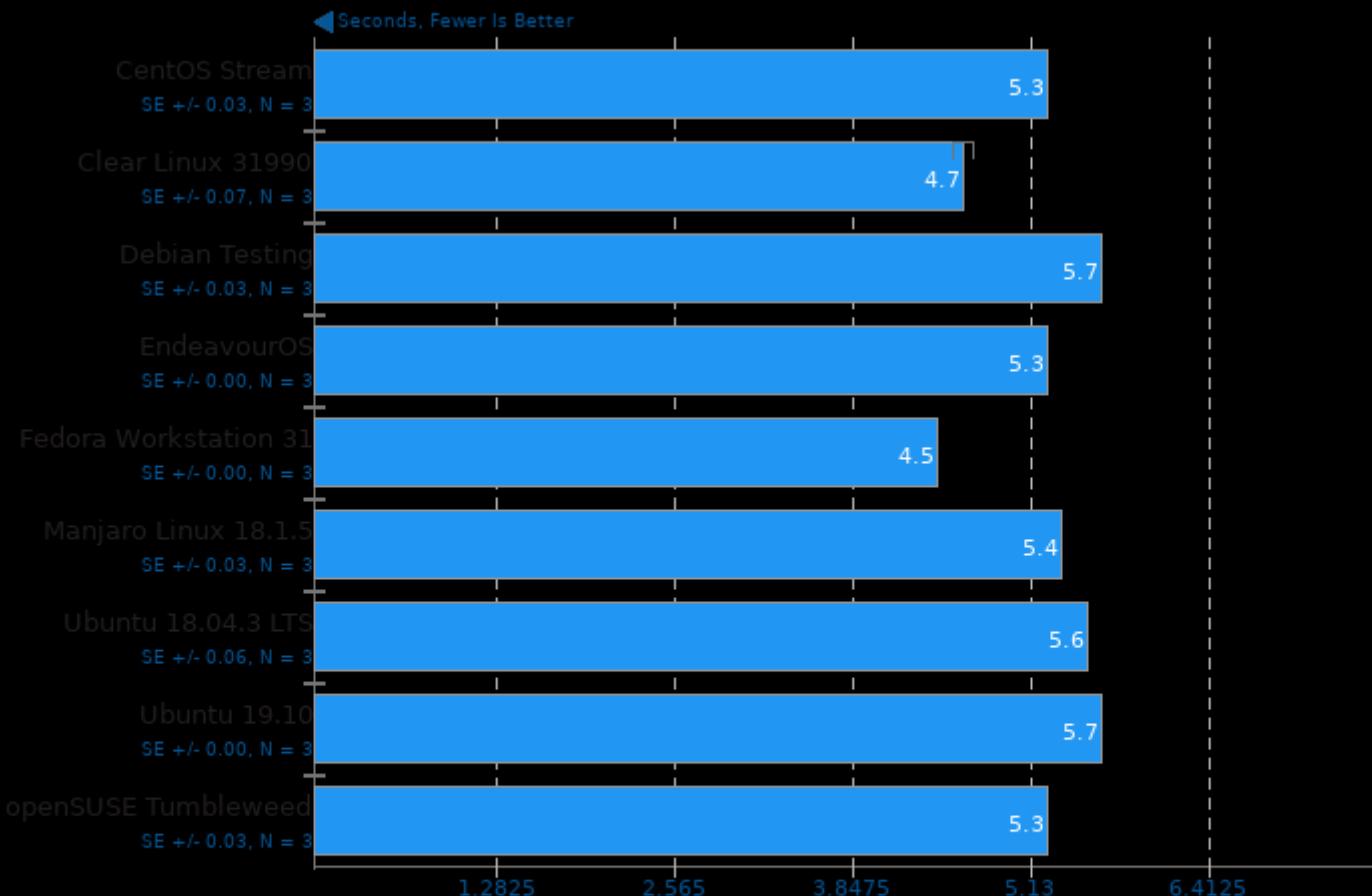
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread

## Selenium

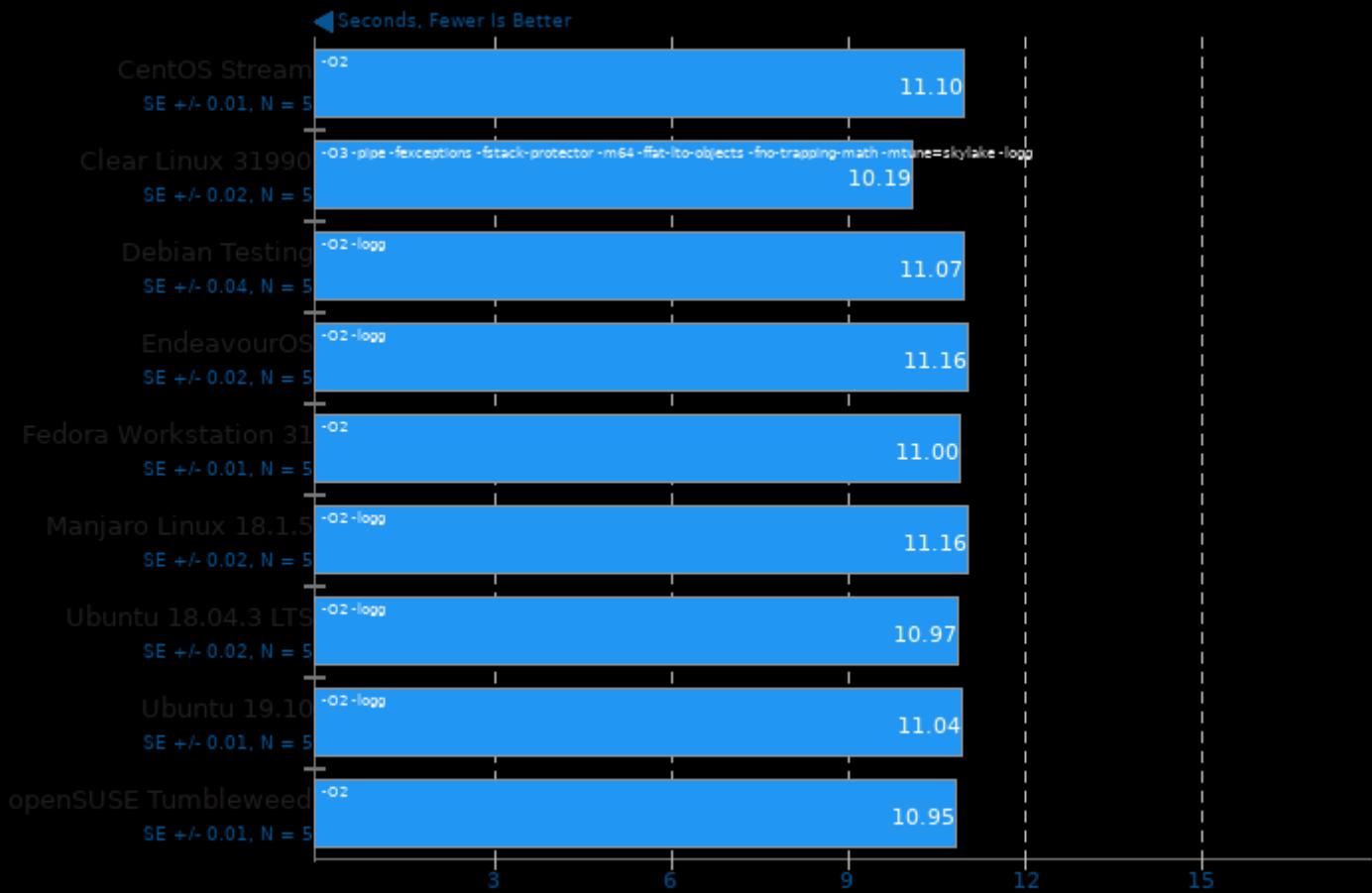
Benchmark: Maze Solver - Browser: Firefox



1. CentOS Stream: firefox 68.2.0
2. Clear Linux 31990: firefox 71.0
3. Debian Testing: firefox 68.3.0
4. EndeavourOS: firefox 71.0
5. Fedora Workstation 31: firefox 71.0
6. Manjaro Linux 18.1.5: firefox 71.0
7. Ubuntu 18.04.3 LTS: firefox 71.0
8. Ubuntu 19.10: firefox 71.0
9. openSUSE Tumbleweed: firefox 70.0.1

## FLAC Audio Encoding 1.3.2

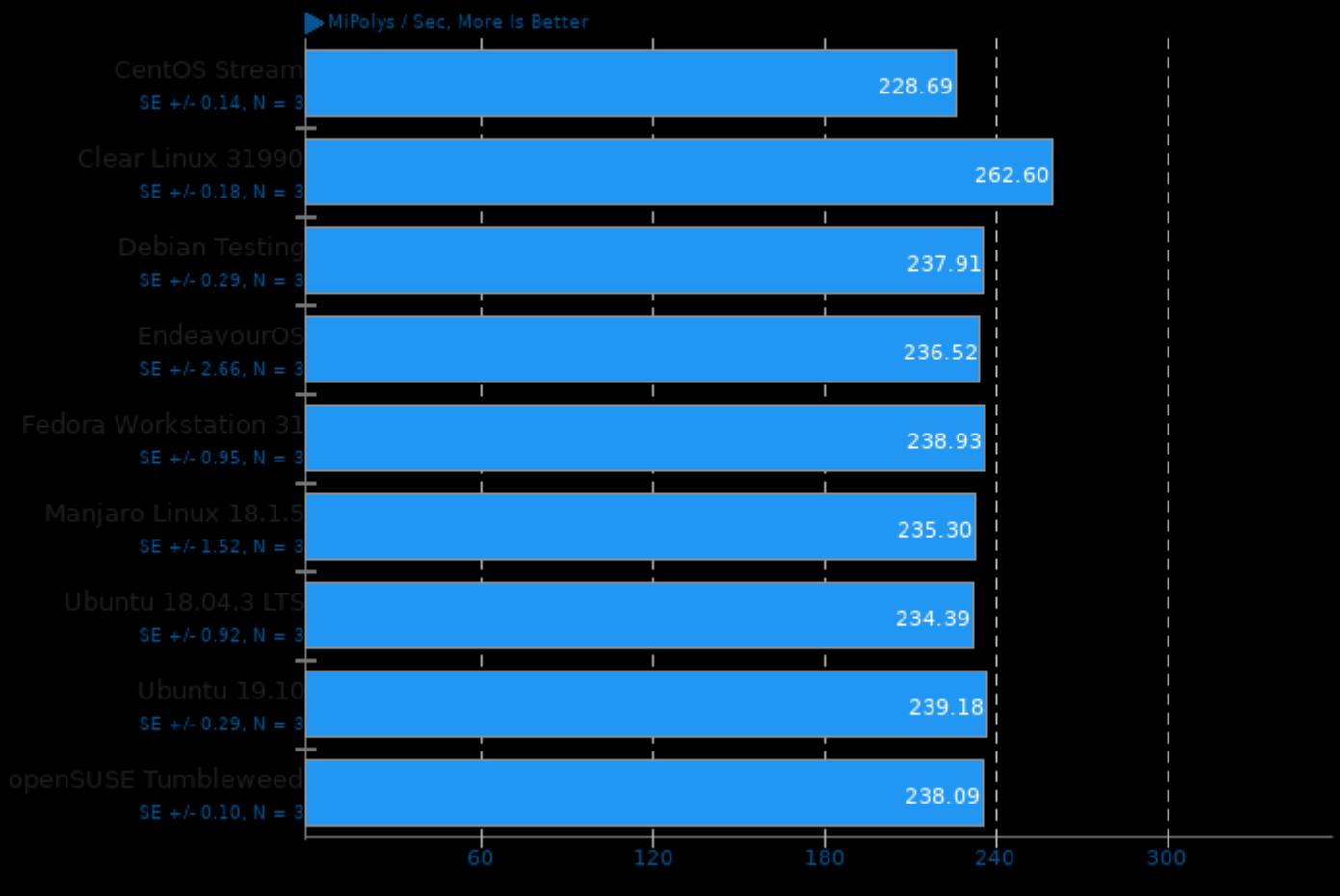
WAV To FLAC



1. (CXX) g++ options: -fvisibility=hidden -lm

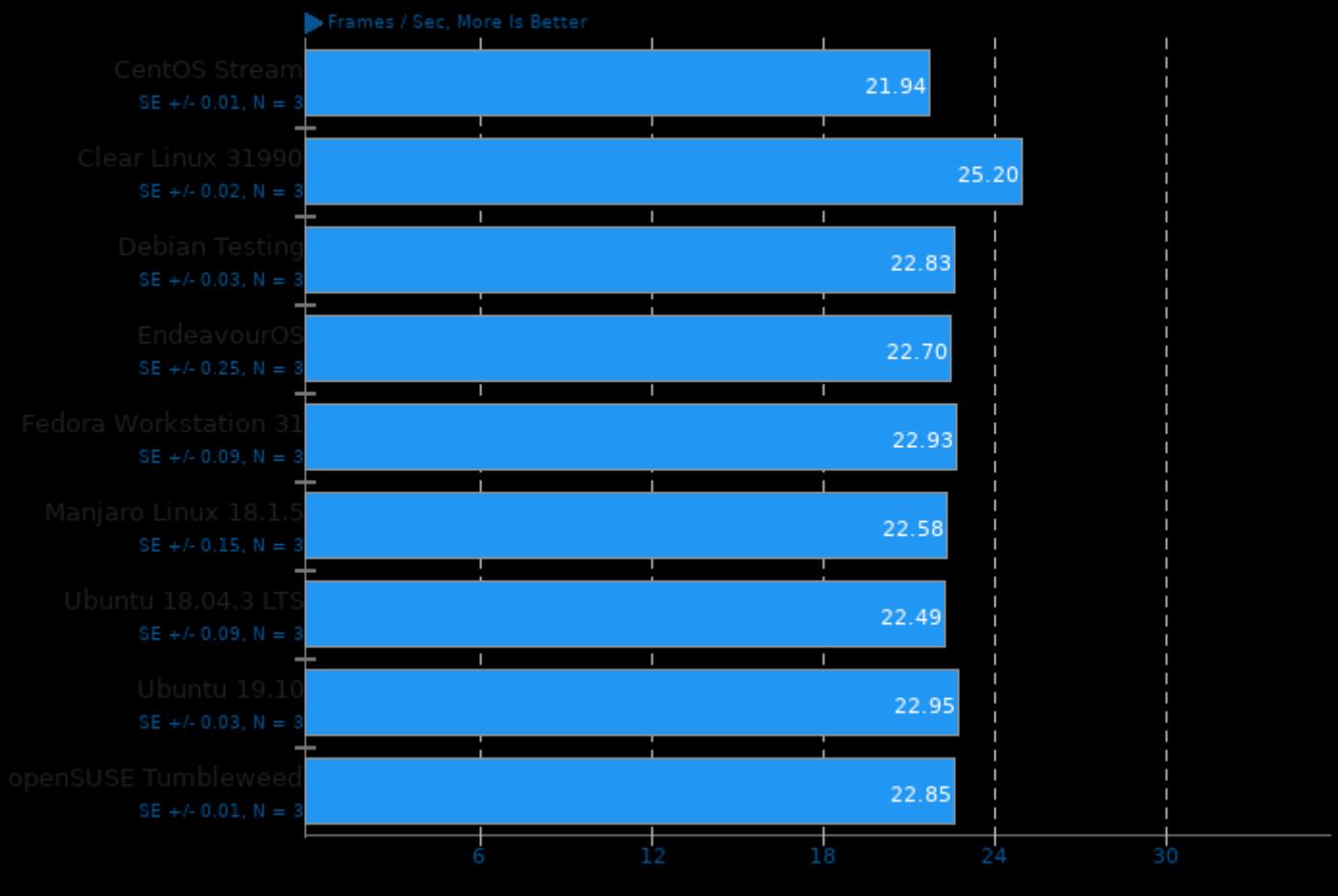
## ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1920 x 1080



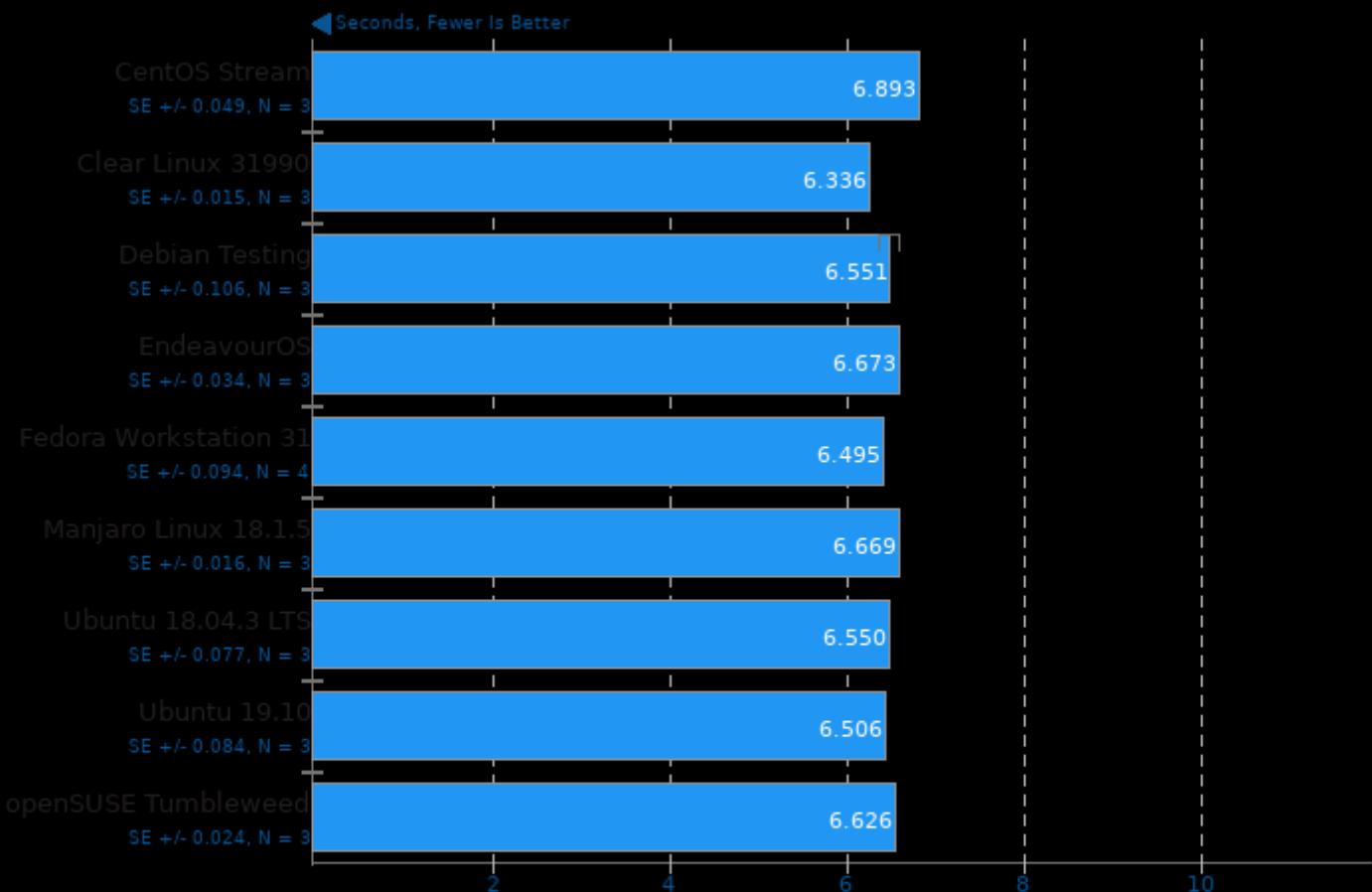
## ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1920 x 1080



## Git

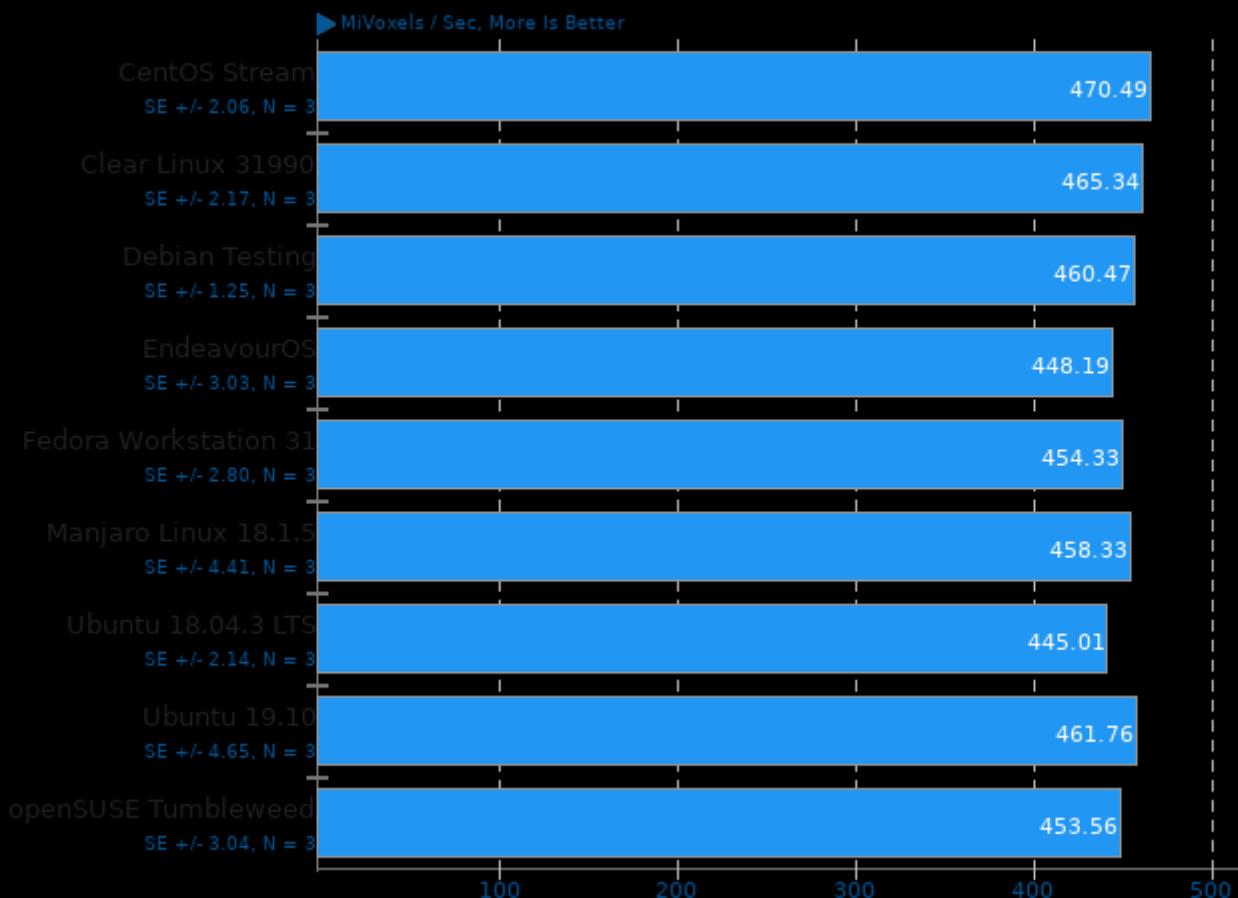
Time To Complete Common Git Commands



1. CentOS Stream: git version 2.18.1
2. Clear Linux 31990: git version 2.24.1
3. Debian Testing: git version 2.24.1
4. EndeavourOS: git version 2.24.1
5. Fedora Workstation 31: git version 2.24.1
6. Manjaro Linux 18.1.5: git version 2.24.1
7. Ubuntu 18.04.3 LTS: git version 2.17.1
8. Ubuntu 19.10: git version 2.20.1
9. openSUSE Tumbleweed: git version 2.24.1

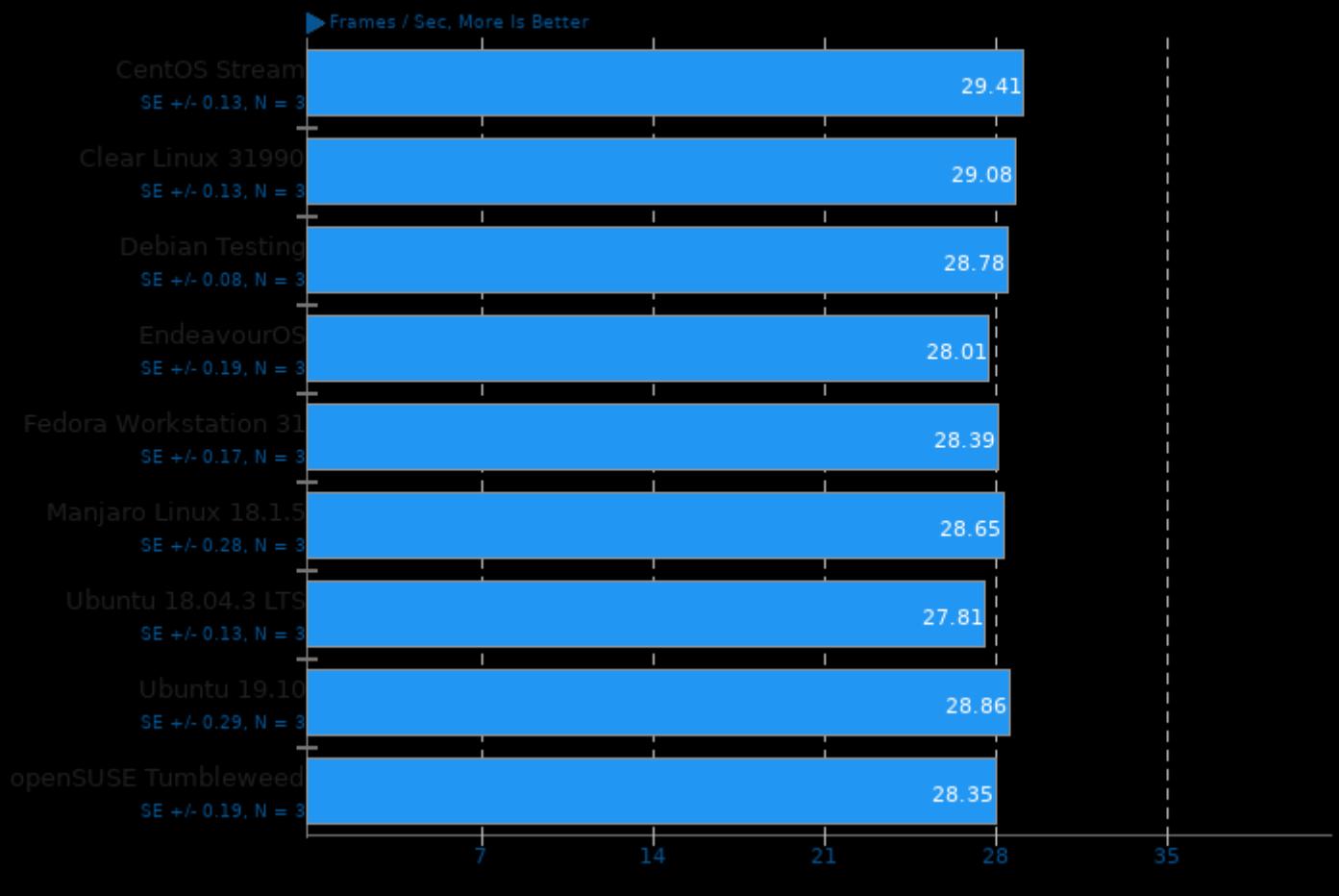
## ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1920 x 1080



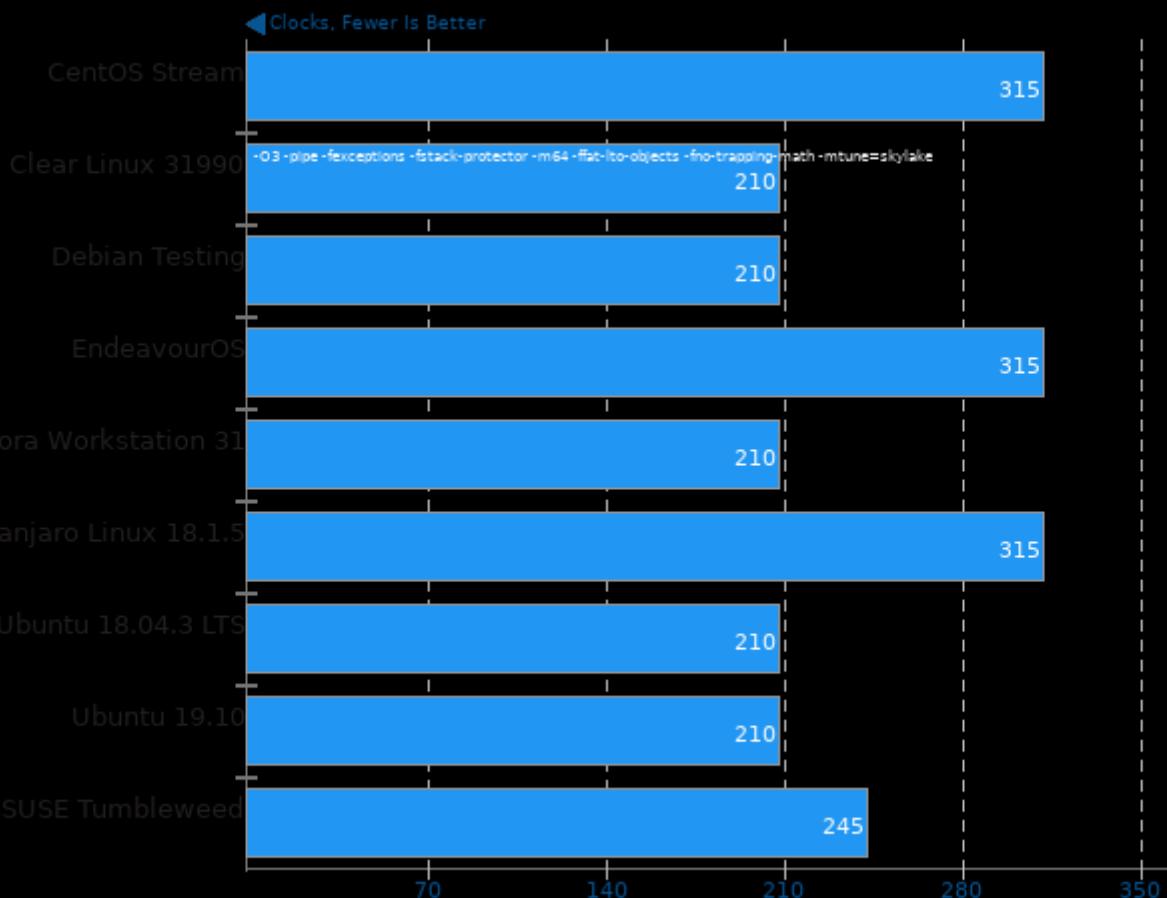
## ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1920 x 1080



**ctx\_clock**

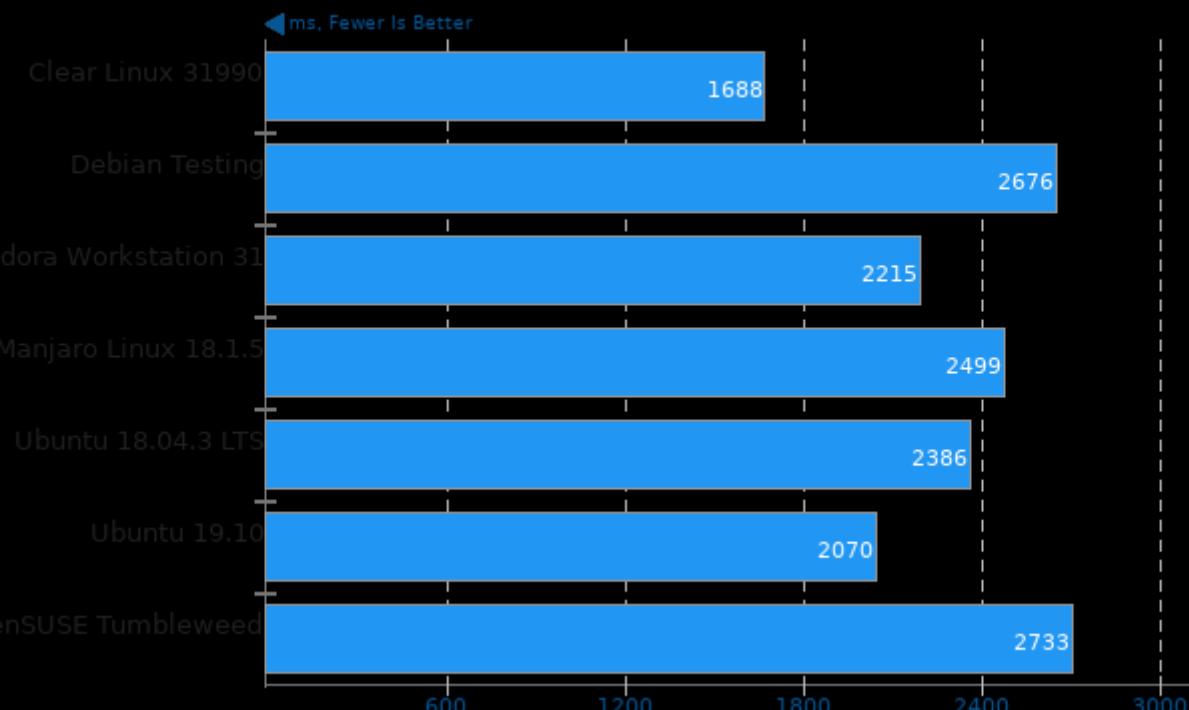
Context Switch Time



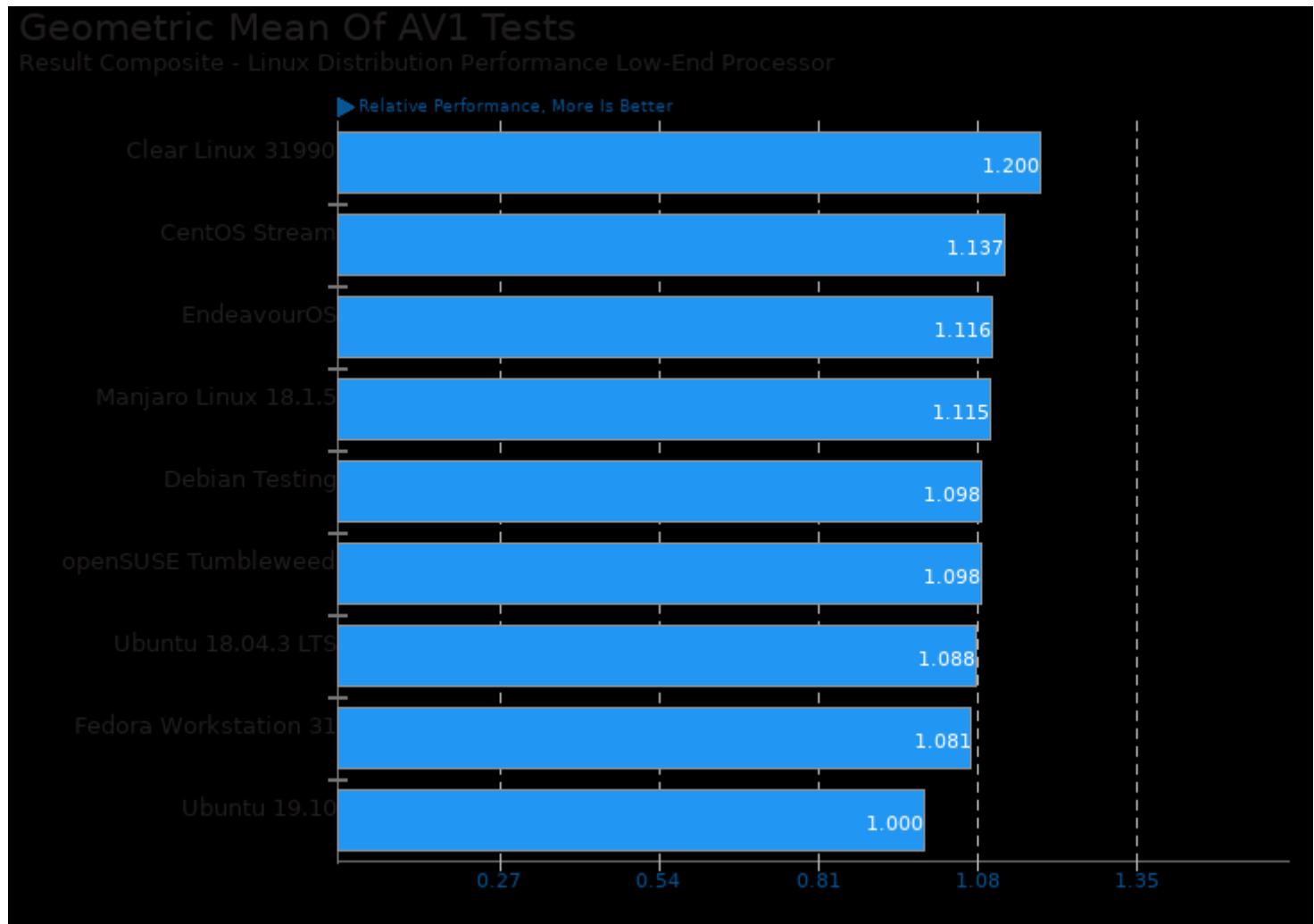
1. (CC) gcc options:

## Systemd Total Boot Time

Test: Kernel

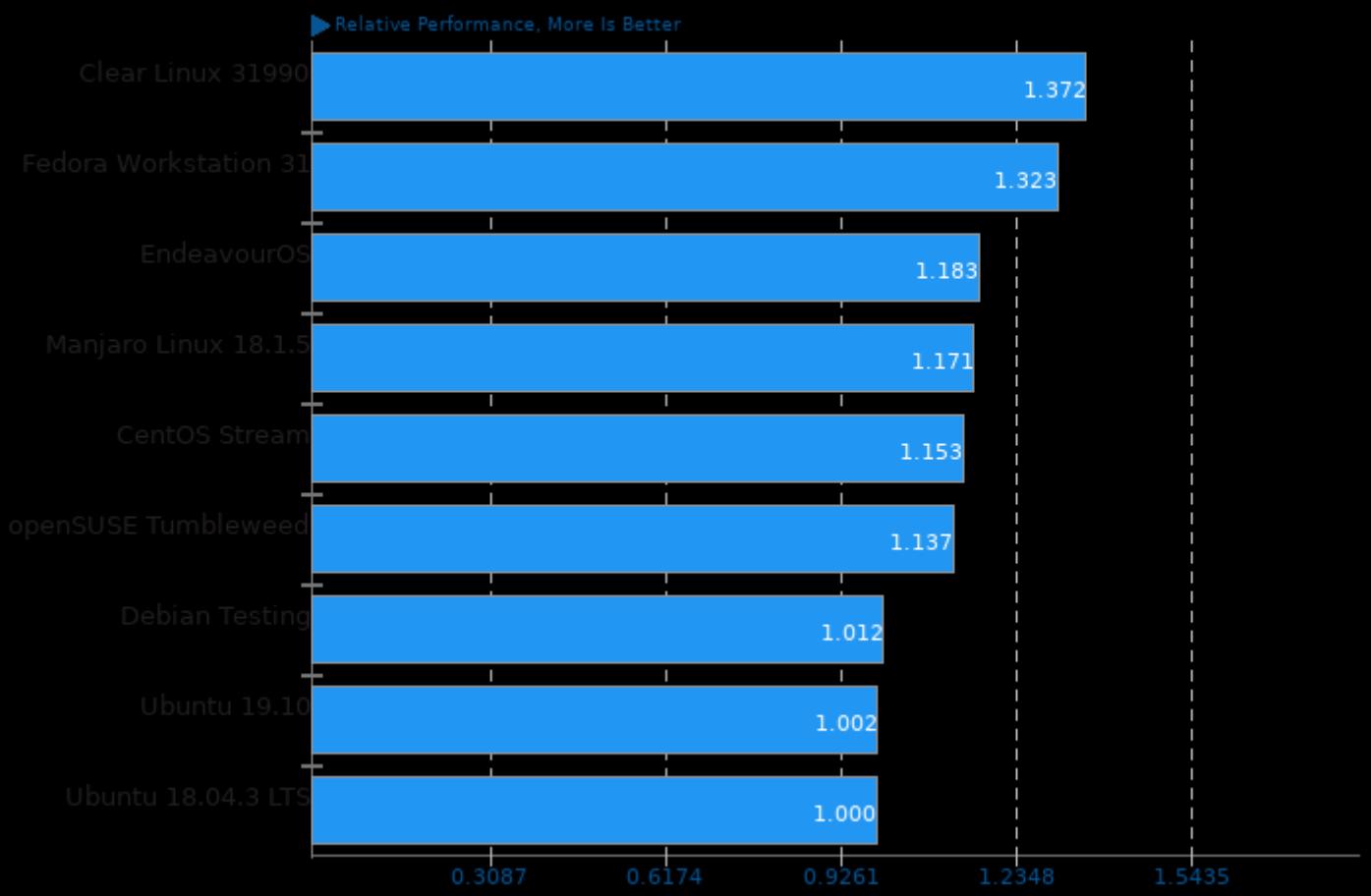


These geometric means are based upon test groupings / test suites for this result file.



## Geometric Mean Of Web Browsers Tests

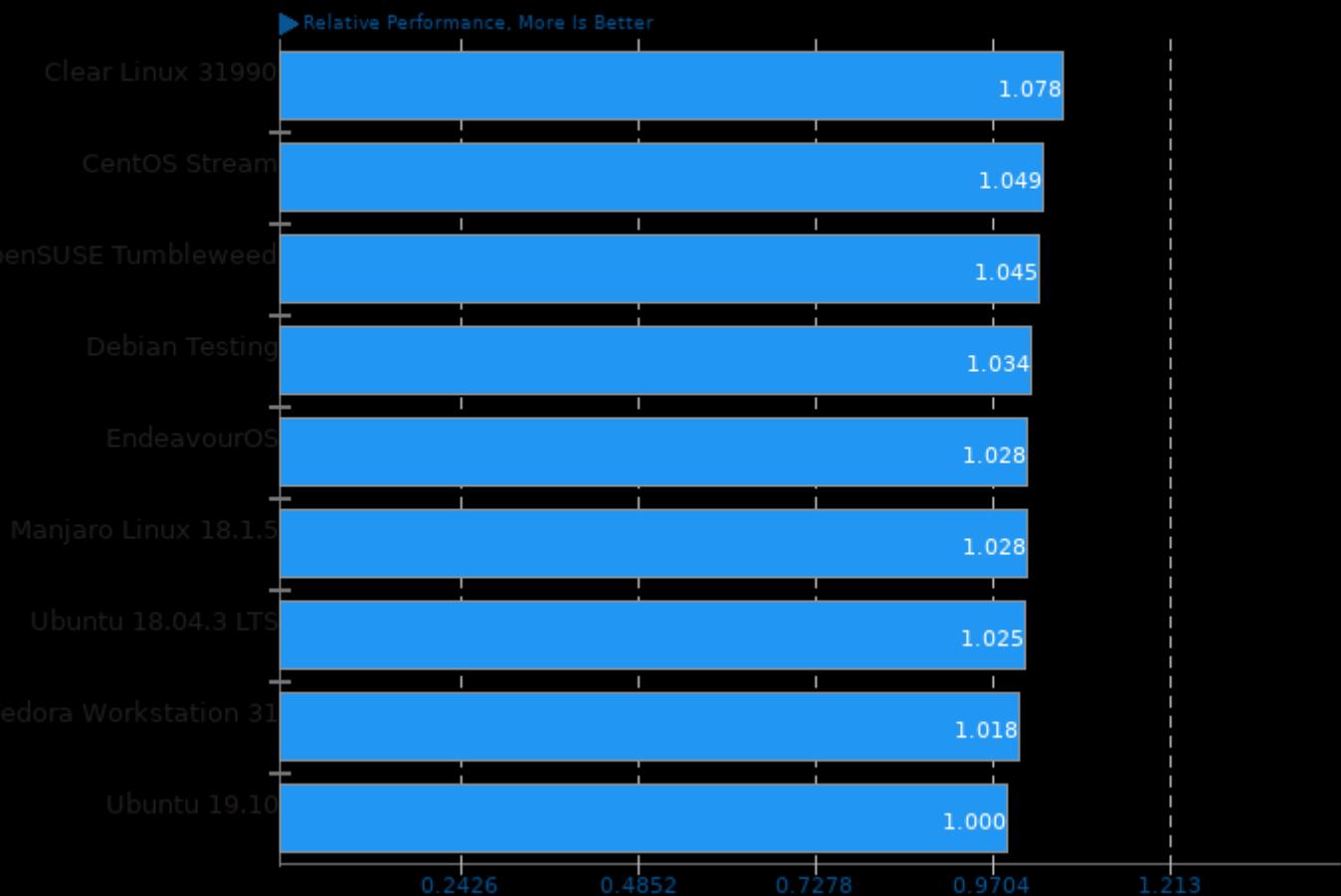
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: system/selenium

## Geometric Mean Of C/C++ Compiler Tests

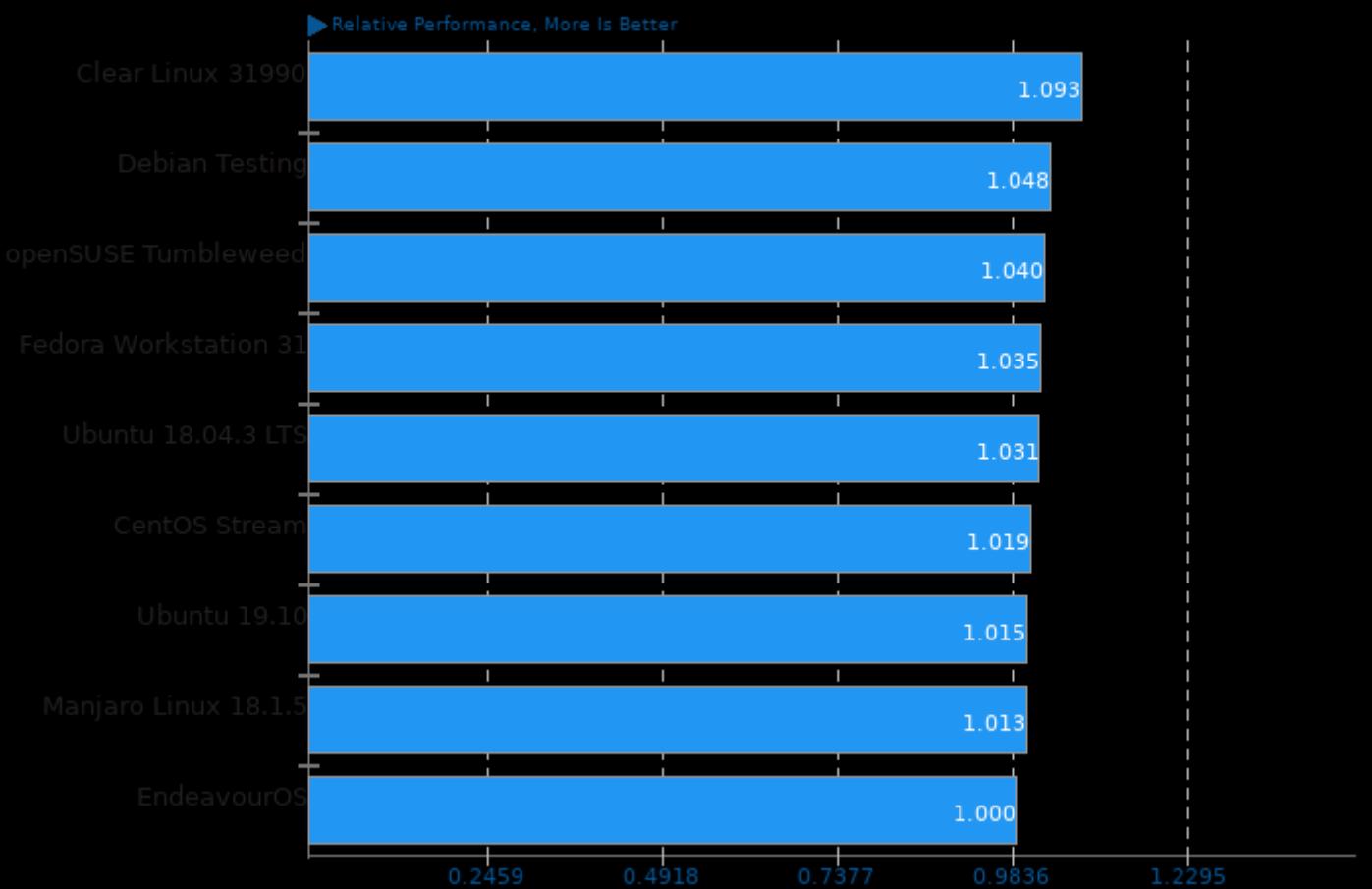
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/himeno, pts/stockfish, pts/encode-flac, pts/dav1d, pts/x265, pts/compress-zstd and pts/svt-av1

## Geometric Mean Of CPU Massive Tests

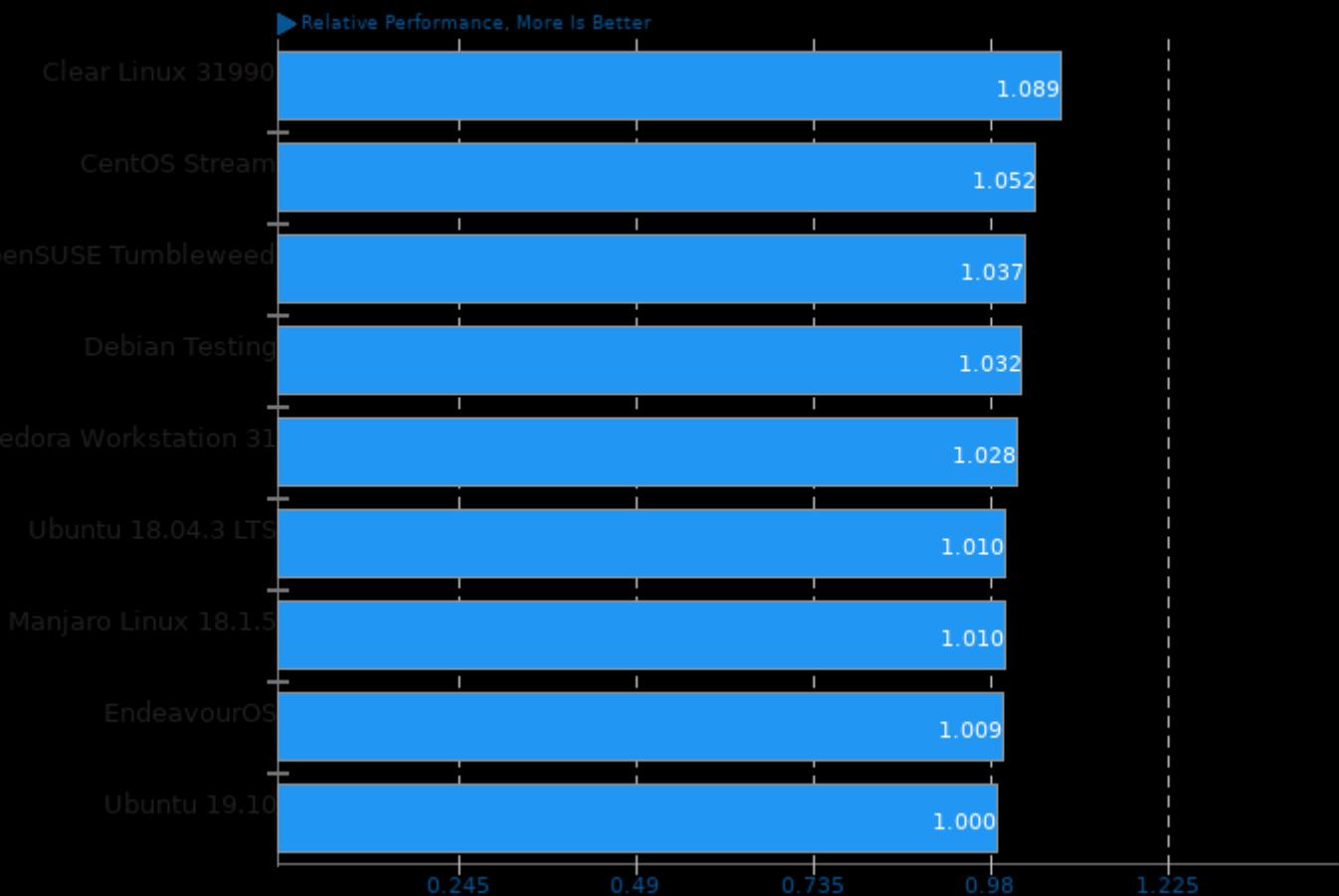
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/compress-zstd, pts/ctx-clock, pts/dav1d, pts/svt-av1, pts/x265, pts/encode-flac, pts/himeno, pts/java-scimark2, pts/stockfish and pts/ttsiod-renderer

## Geometric Mean Of Creator Workloads Tests

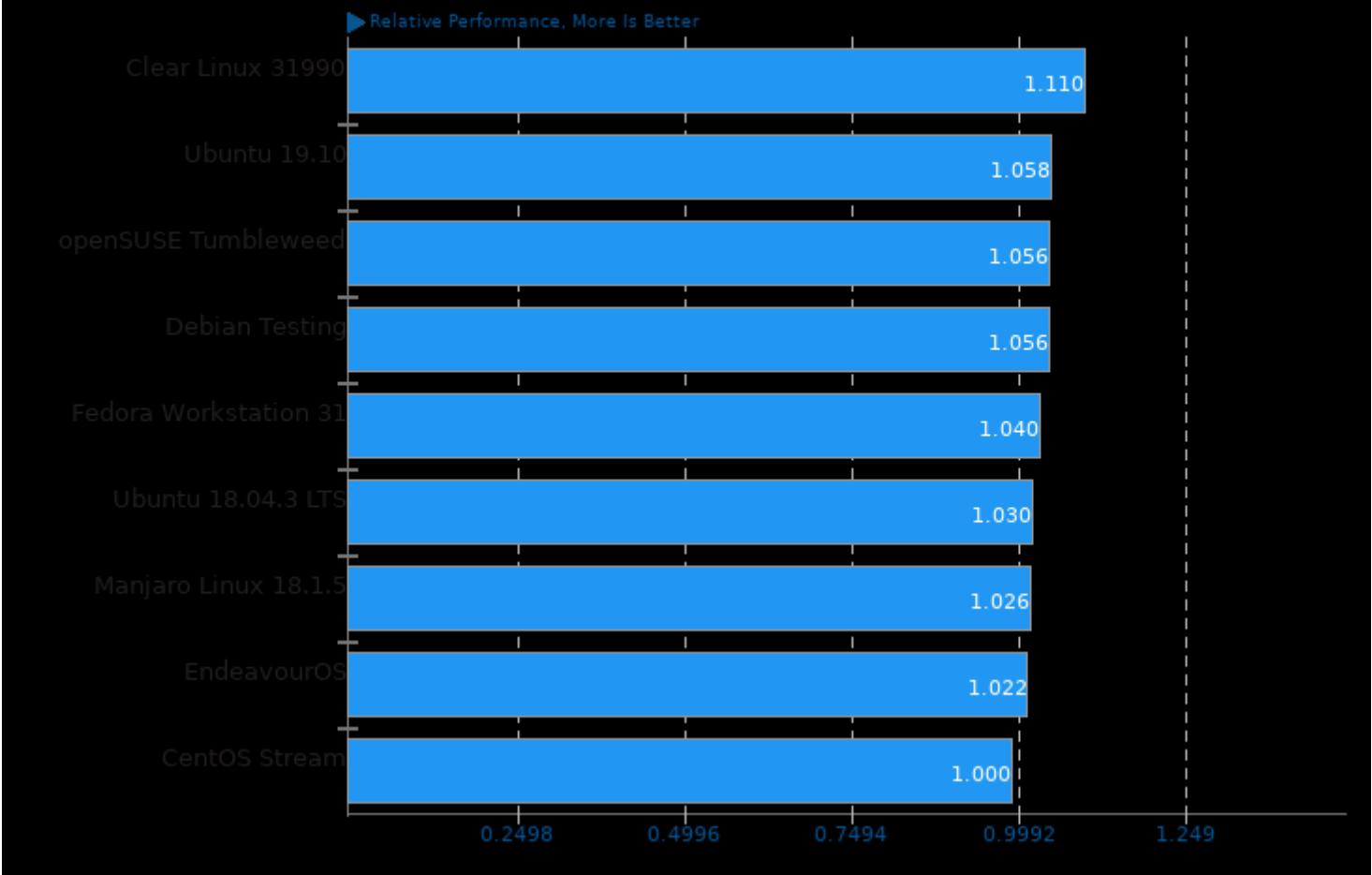
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/smallpt, pts/ttsiod-renderer, pts/x265, pts/dav1d, pts/svt-av1, pts/encode-flac and pts/deepspeech

## Geometric Mean Of Desktop Graphics Tests

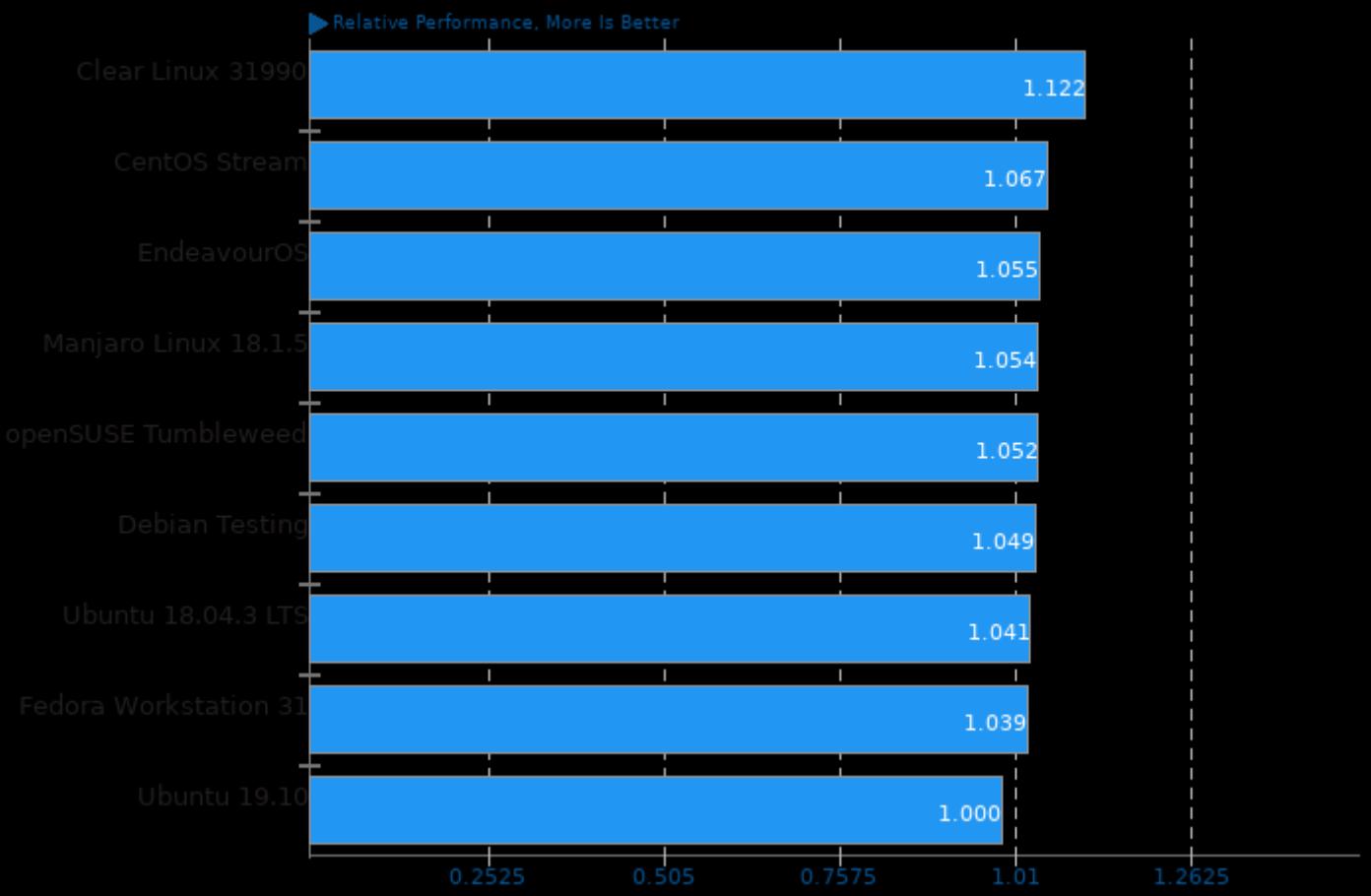
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/xonotic, pts/tesseract and pts/paraview

## Geometric Mean Of Encoding Tests

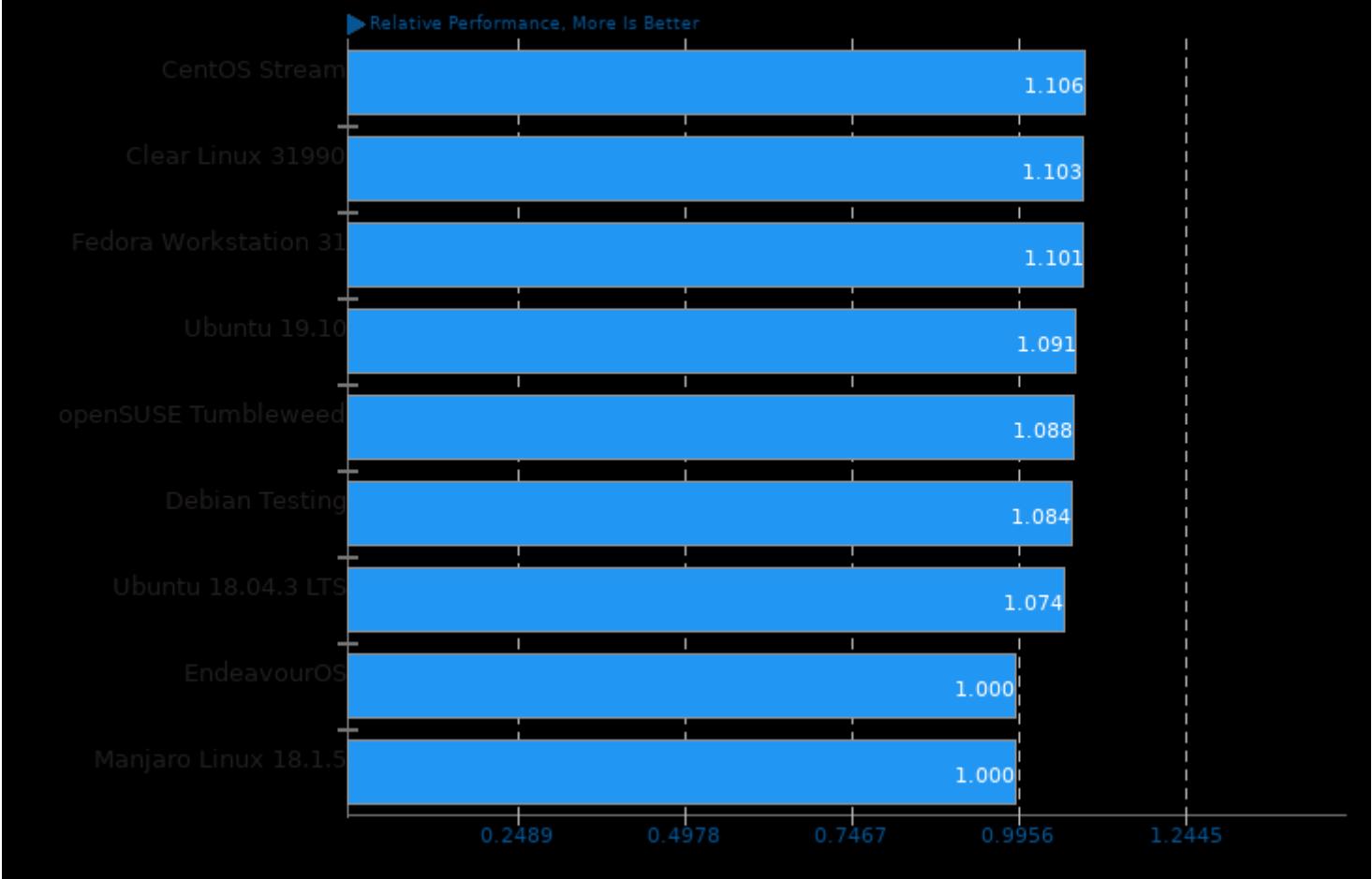
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/encode-flac, pts/x265, pts/dav1d and pts/svt-av1

**Geometric Mean Of HPC - High Performance Computing Tests**

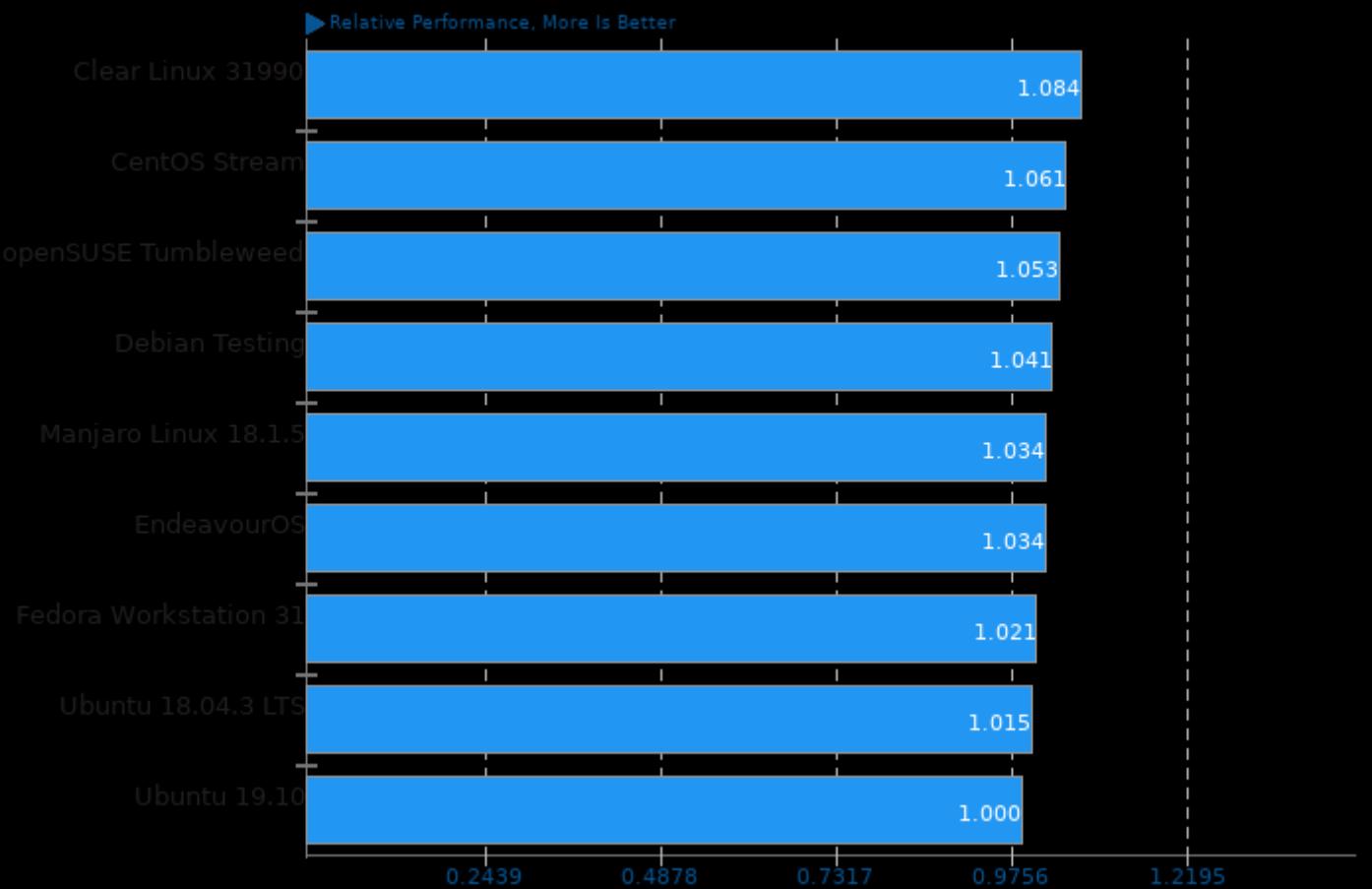
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/himeno and pts/deepspeech

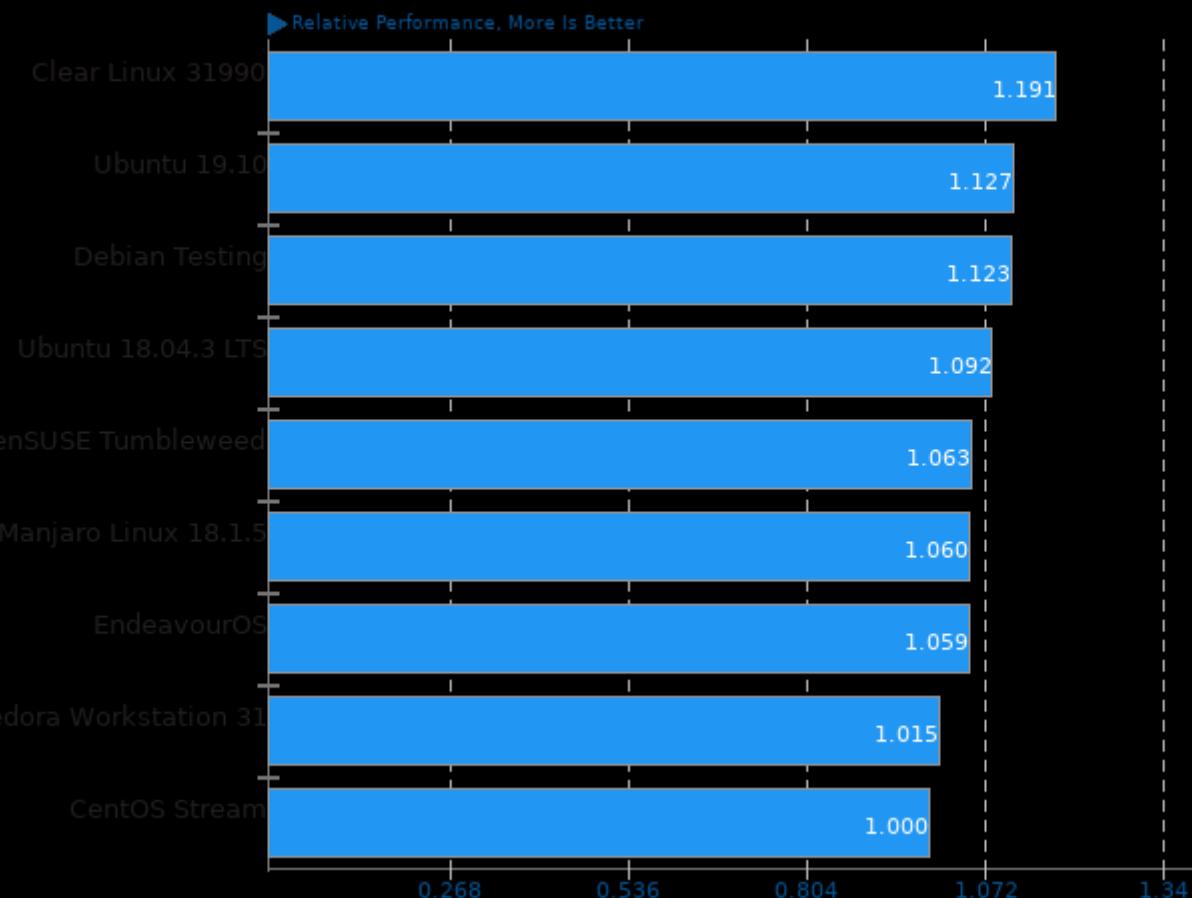
## Geometric Mean Of Multi-Core Tests

Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/stockfish, pts/x265, pts/dav1d, pts/svt-av1, pts/smallpt, pts/compress-zstd and pts/ttsiod-renderer

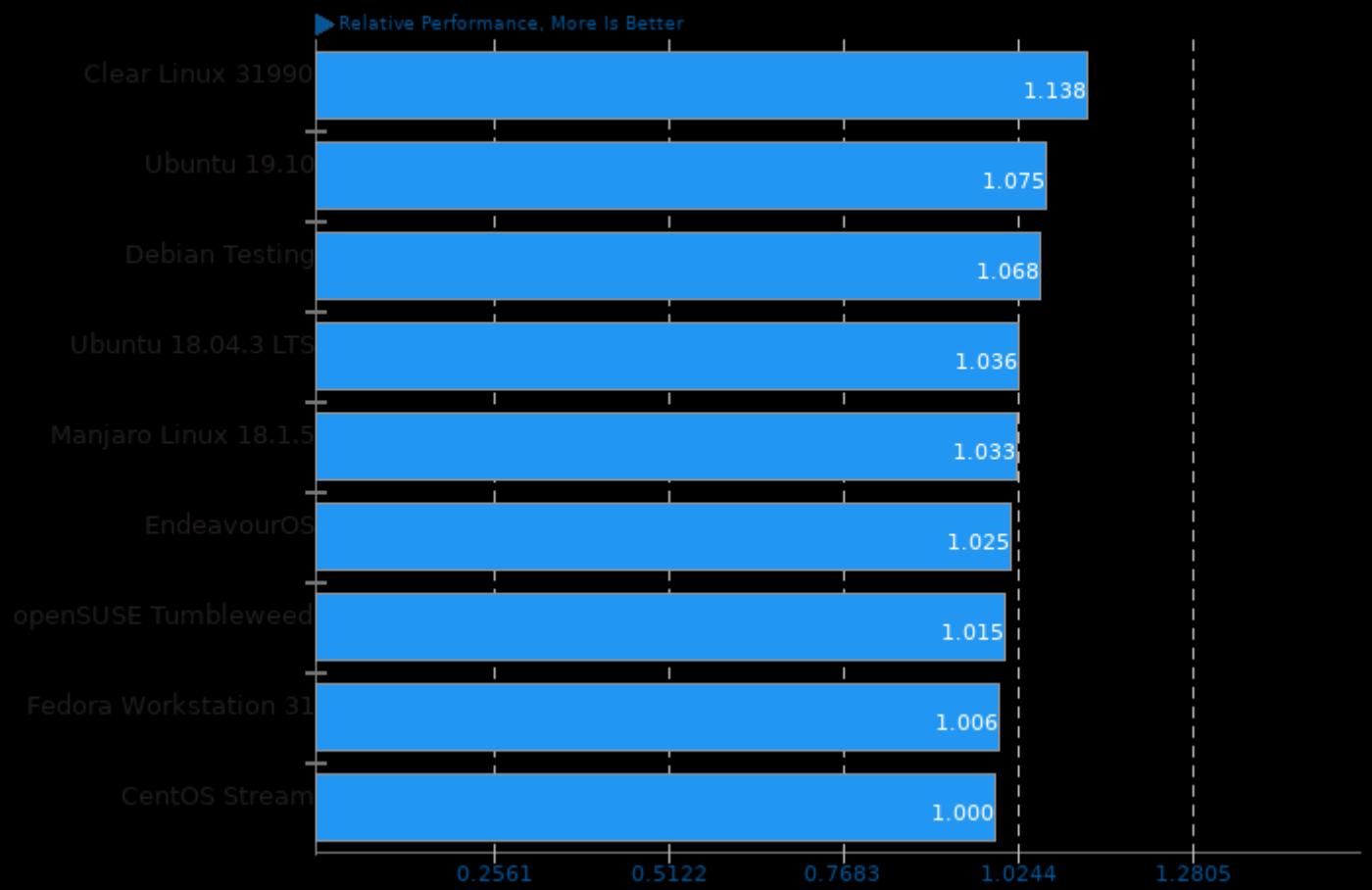
### Geometric Mean Of Programmer / Developer System Benchmarks Tests Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/git, pts/compress-zstd and pts/pybench

### Geometric Mean Of Python Tests

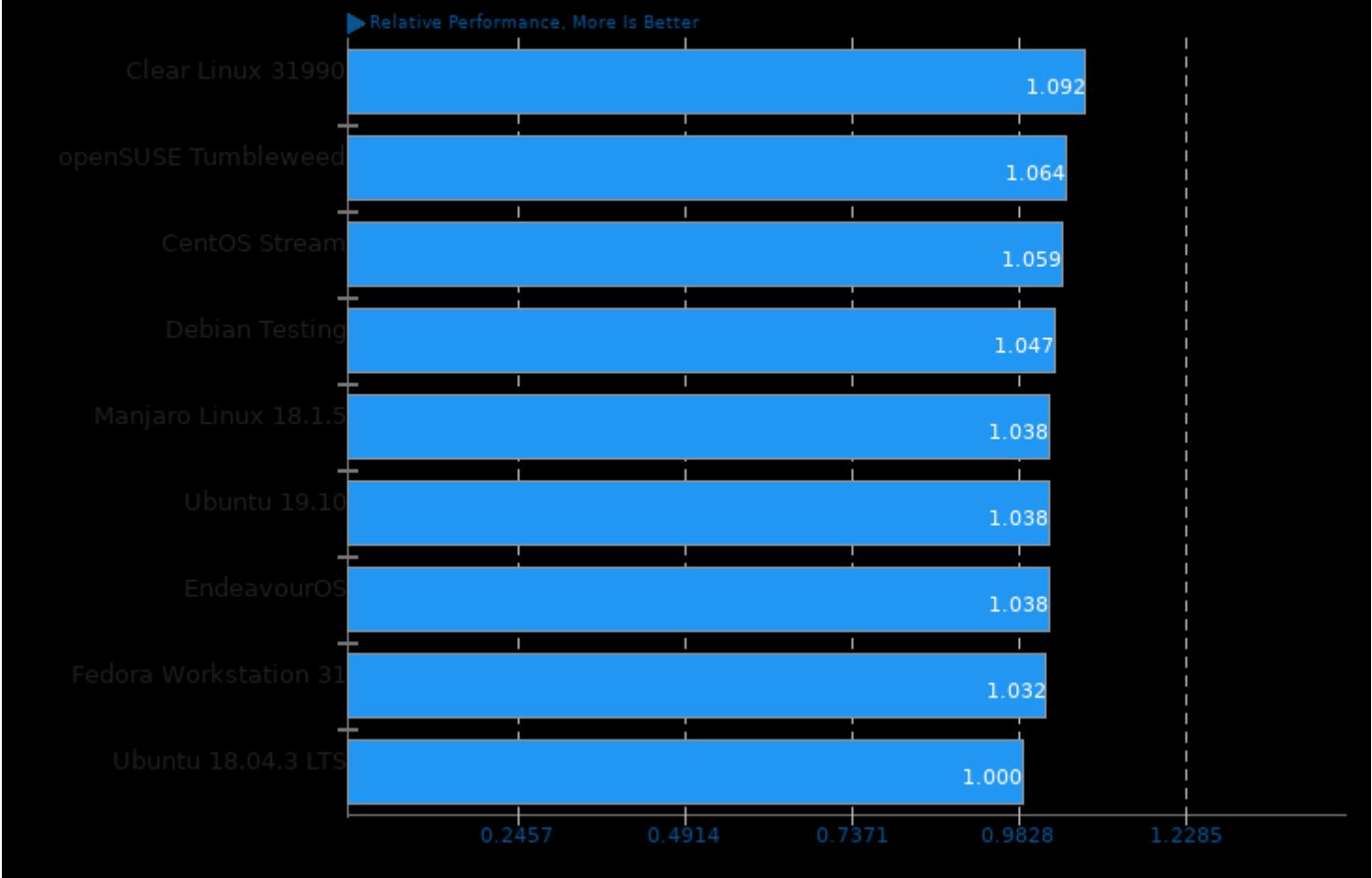
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/pybench, pts/paraview and pts/systemd-boot-total

**Geometric Mean Of Renderers Tests**

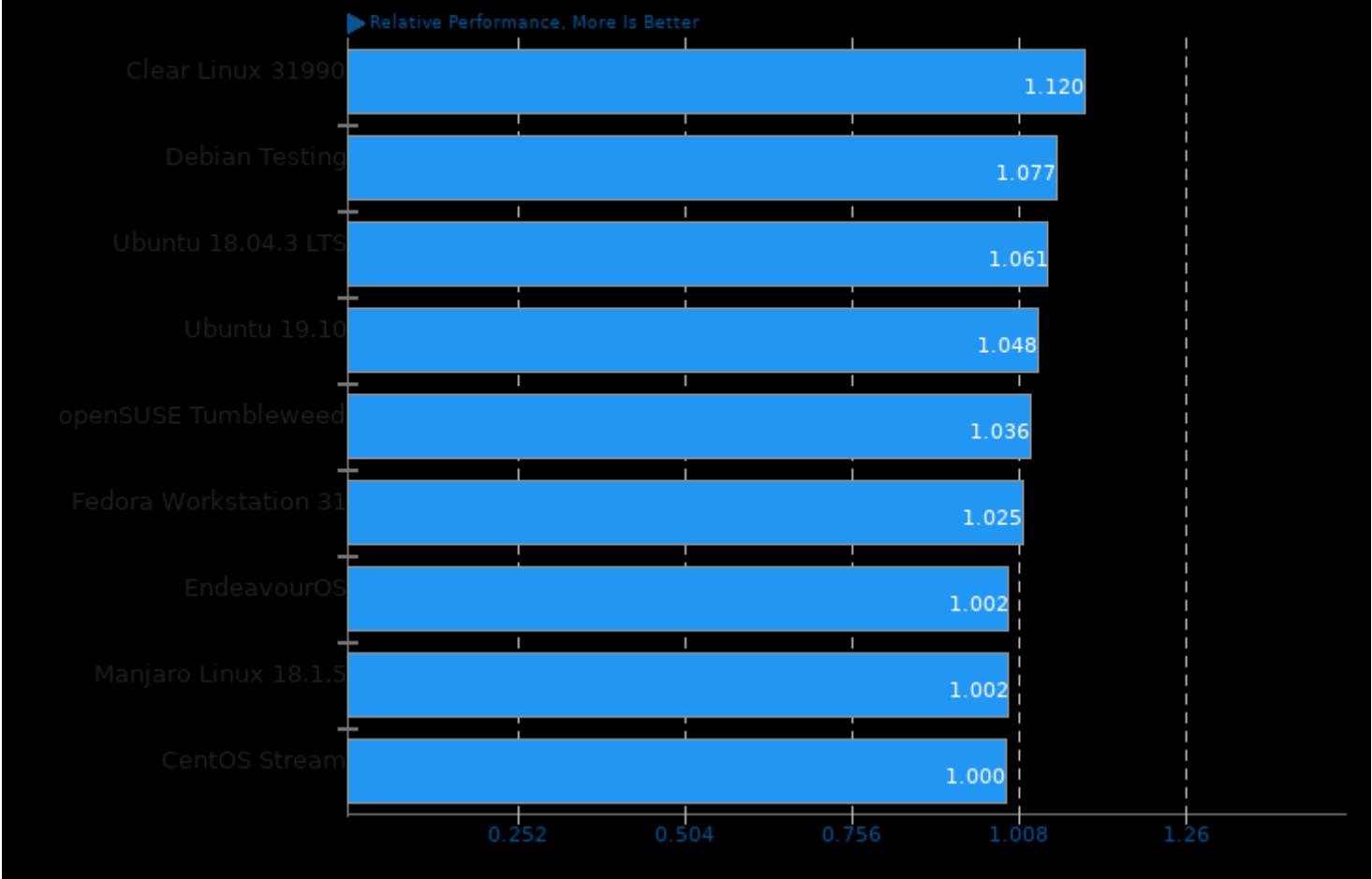
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/smallpt and pts/ttsiod-renderer

**Geometric Mean Of Server CPU Tests**

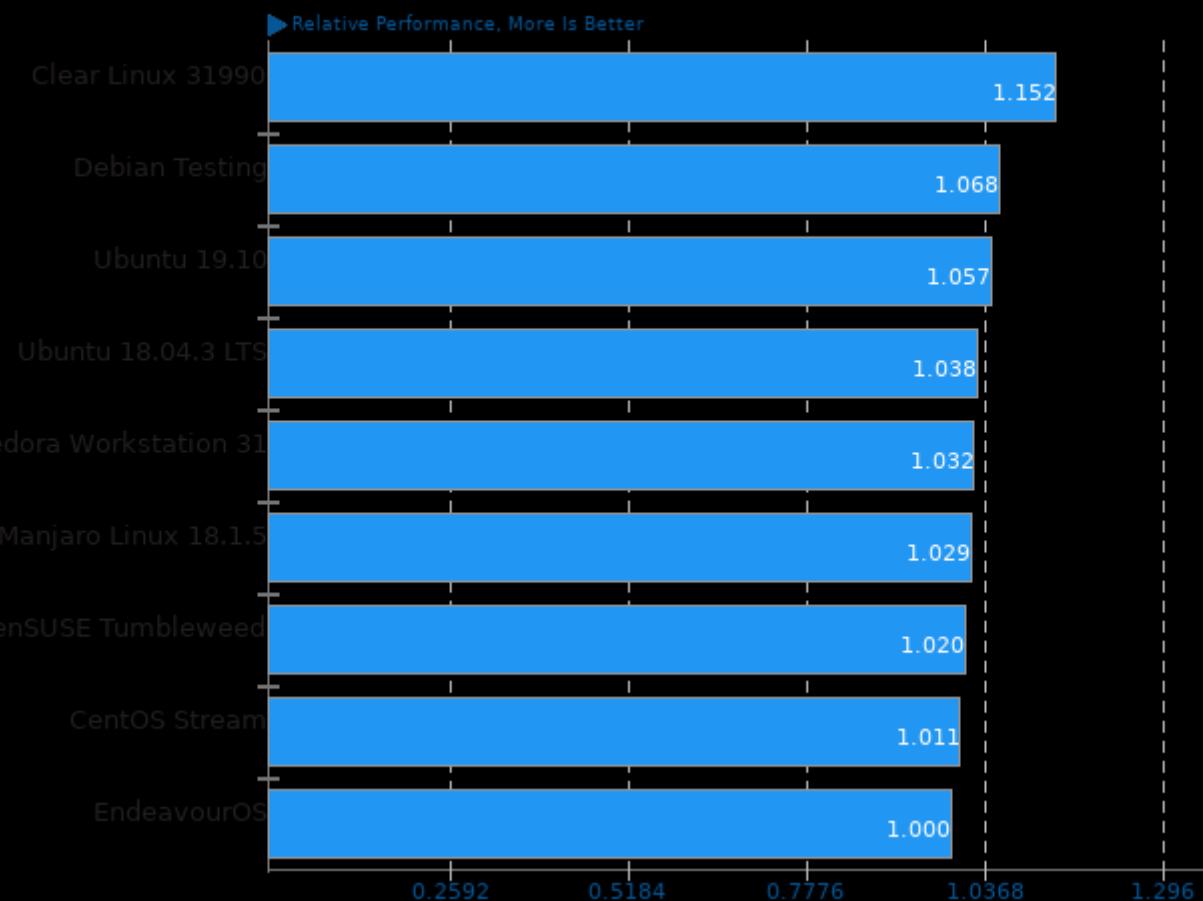
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/svt-av1, pts/x265, pts/dav1d, pts/himeno, pts/stockfish, pts/compress-zstd, pts/ctx-clock and pts/pybench

**Geometric Mean Of Single-Threaded Tests**

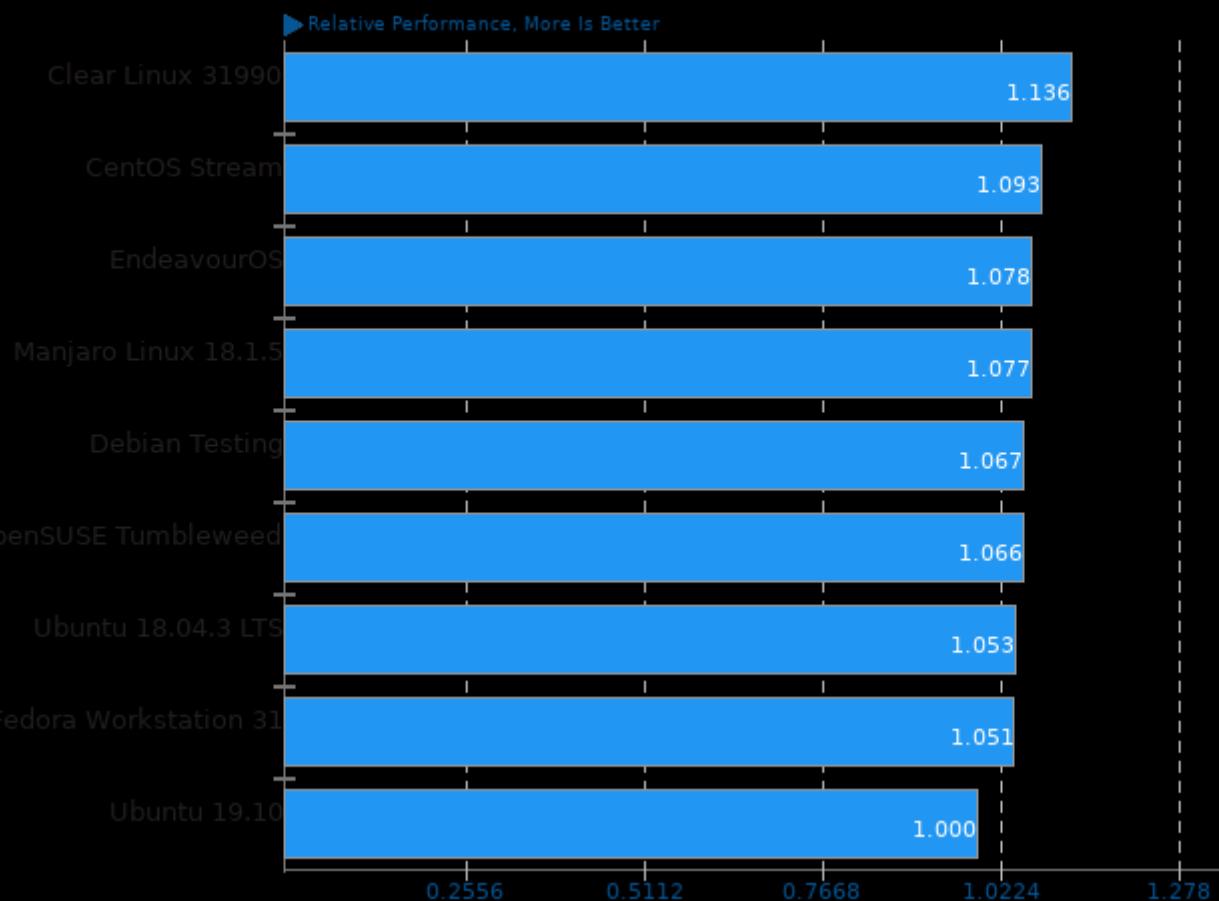
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/java-scimark2, pts/deepspeech, pts/encode-flac, pts/perl-benchmark, pts/pybench and pts/git

**Geometric Mean Of Video Encoding Tests**

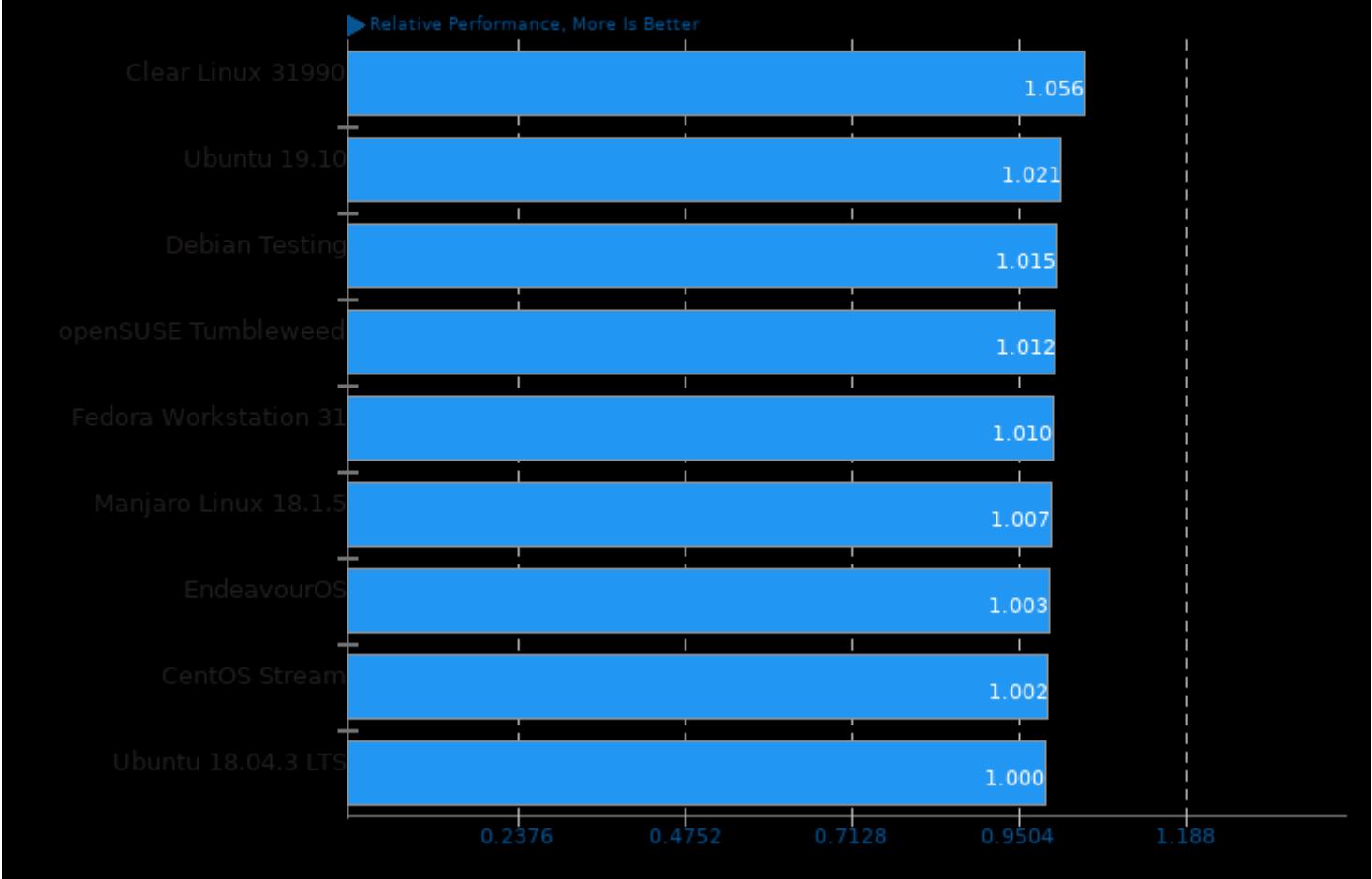
Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/x265, pts/dav1d and pts/svt-av1

**Geometric Mean Of Common Workstation Benchmarks Tests**

Result Composite - Linux Distribution Performance Low-End Processor



Geometric mean based upon tests: pts/himeno, pts/x265, pts/paraview and pts/git

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:26.*